

EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	8	"hydrogen exchange analysis"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/09/29 07:23
L2	4	("3560158").PN.	US-PGPUB; USPAT; DERWENT	OR	OFF	2006/09/29 07:23
L3	4	("3623840").PN.	US-PGPUB; USPAT; DERWENT	OR	OFF	2006/09/29 07:23
L4	677	"hydrogen exchange"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/09/29 07:23
L5	40	"hydrogen exchange".clm.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/09/29 07:23
S5	1583116	((crystal) or (xtal) or (3D) or (xray) or (x-ray) or (NMR))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/08/10 11:31
S22	2	("5658739").PN.	US-PGPUB; USPAT; DERWENT	OR	OFF	2006/09/27 13:16
S23	2	("6331400").PN.	US-PGPUB; USPAT; DERWENT	OR	OFF	2006/09/27 13:17
S24	2	("6291189").PN.	US-PGPUB; USPAT; DERWENT	OR	OFF	2006/09/28 14:34
S25	27731	woods.in.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/09/28 14:35
S26	22	S25 and "hydrogen exchange"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/09/29 07:20

Trying 31060000009999...Open

DIALOG INFORMATION SERVICES

PLEASE LOGON:

***** HHHHHHHH SSSSSSS? ### Status: Signing onto Dialog *****

ENTER PASSWORD:

***** HHHHHHHH SSSSSSS? *****

Welcome to DIALOG

Status: Login successfulDialog level 05.12.03D

Last logoff: 26sep06 09:07:54

Logon file405 28sep06 09:28:34

*** ANNOUNCEMENTS ***

NEW FILES RELEASED

***Verdict Market Research (File 769)

***EMCare (File 45)

***Trademarkscan - South Korea (File 655)

***Regulatory Affairs Journals (File 183)

***Index Chemicus (File 302)

***Inspec (File 202)

RESUMED UPDATING

***File 141, Reader's Guide Abstracts

RELOADS COMPLETED

***File 11, PsycInfo

***File 531, American Business Directory

*** The 2005 reload of the CLAIMS files (Files 340, 341, 942)
is now available online.

DATABASES REMOVED

***File 196, FINDEX

***File 468, Public Opinion Online (POLL)

Chemical Structure Searching now available in Prous Science Drug
Data Report (F452), Prous Science Drugs of the Future (F453),
IMS R&D Focus (F445/955), Pharmaprojects (F128/928), Beilstein
Facts (F390), Derwent Chemistry Resource (F355) and Index Chemicus
(File 302).

>>>For the latest news about Dialog products, services, content<<<
>>>and events, please visit What's New from Dialog at <<<
>>><http://www.dialog.com/whatsnew/>. You can find news about<<<
>>>a specific database by entering HELP NEWS <file number>.<<<

* * *

SYSTEM:HOME

Cost is in DialUnits

Menu System II: D2 version 1.7.9 term=ASCII

*** DIALOG HOMEBASE(SM) Main Menu ***

Information:

1. Announcements (new files, reloads, etc.)
2. Database, Rates, & Command Descriptions
3. Help in Choosing Databases for Your Topic
4. Customer Services (telephone assistance, training, seminars, etc.)

5. Product Descriptions

Connections:

6. DIALOG(R) Document Delivery
7. Data Star(R)

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/H = Help /L = Logoff /NOMENU = Command Mode

Enter an option number to view information or to connect to an online service. Enter a BEGIN command plus a file number to search a database (e.g., B1 for ERIC).

?

Terminal set to DLINK

*** DIALOG HOMEBASE(SM) Main Menu ***

Information:

1. Announcements (new files, reloads, etc.)
2. Database, Rates, & Command Descriptions
3. Help in Choosing Databases for Your Topic
4. Customer Services (telephone assistance, training, seminars, etc.)
5. Product Descriptions

Connections:

6. DIALOG(R) Document Delivery
7. Data Star(R)

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/H = Help /L = Logoff /NOMENU = Command Mode

Enter an option number to view information or to connect to an online service. Enter a BEGIN command plus a file number to search a database (e.g., B1 for ERIC).

? b 155 biosci medicine 399

```
>>>          44 is unauthorized
>>>          76 is unauthorized
>>>          138 is unauthorized
>>>3 of the specified files are not available
      28sep06 09:28:47 User276629 Session D256.1
      $0.00    0.216 DialUnits FileHomeBase
      $0.00 Estimated cost FileHomeBase
      $0.05 TELNET
      $0.05 Estimated cost this search
      $0.05 Estimated total session cost    0.216 DialUnits
```

SYSTEM:OS - DIALOG OneSearch

File 155:MEDLINE(R) 1950-2006/Sep 27

(c) format only 2006 Dialog

File 5:Biosis Previews(R) 1969-2006/Sep W4

(c) 2006 The Thomson Corporation

File 24:CSA Life Sciences Abstracts 1966-2006/Aug

(c) 2006 CSA.
 File 28:Oceanic Abstracts 1966-2006/Aug
 (c) 2006 CSA.
 File 34:SciSearch(R) Cited Ref Sci 1990-2006/Sep W4
 (c) 2006 The Thomson Corp
 File 35:Dissertation Abs Online 1861-2006/Sep
 (c) 2006 ProQuest Info&Learning
 File 40:Enviroline(R) 1975-2006/Aug
 File 41:Pollution Abstracts 1966-2006/Aug
 (c) 2006 CSA.
 File 45:EMCare 2006/Sep W4
 (c) 2006 Elsevier B.V.
 File 50:CAB Abstracts 1972-2006/Aug
 (c) 2006 CAB International
 File 65:Inside Conferences 1993-2006/Sep 28.
 (c) 2006 BLDSC all rts. reserv.
 File 71:ELSEVIER BIOBASE 1994-2006/Sep W4
 (c) 2006 Elsevier B.V.
 File 73:EMBASE 1974-2006/Sep 28
 (c) 2006 Elsevier B.V.
 File 91:MANTIS(TM) 1880-2006/Jan
 2001 (c) Action Potential
 File 94:JICST-EPlus 1985-2006/Jun W3
 (c)2006 Japan Science and Tech Corp(JST)
 File 98:General Sci Abs 1984-2006/Sep
 (c) 2006 The HW Wilson Co.
 File 110:WasteInfo 1974-2002/Jul
 (c) 2002 AEA Techn Env.
***File 110: This file is closed (no updates)**
 File 135:NewsRx Weekly Reports 1995-2006/Sep W3
 (c) 2006 NewsRx
 File 136:BioEngineering Abstracts 1966-2006/Aug
 (c) 2006 CSA.
 File 143:Biol. & Agric. Index 1983-2006/Jul
 (c) 2006 The HW Wilson Co
 File 144:Pascal 1973-2006/Sep W1
 (c) 2006 INIST/CNRS
 File 164:Allied & Complementary Medicine 1984-2006/Sep
 (c) 2006 BLHCIS
 File 172:EMBASE Alert 2006/Sep 28
 (c) 2006 Elsevier B.V.
 File 185:Zoological Record Online(R) 1978-2006/Oct
 (c) 2006 The Thomson Corp.
 File 357:Derwent Biotech Res. _1982-2006/Sep W4
 (c) 2006 The Thomson Corp.
 File 369:New Scientist 1994-2006/Aug W1
 (c) 2006 Reed Business Information Ltd.
 File 370:Science 1996-1999/Jul W3
 (c) 1999 AAAS
***File 370: This file is closed (no updates). Use File 47 for more current information.**
 File 391:Beilstein Reactions 2006/Q3
 (c) 2006 Beilstein GmbH
 File 434:SciSearch(R) Cited Ref Sci 1974-1989/Dec
 (c) 2006 The Thomson Corp
 File 467:ExtraMED(tm) 2000/Dec
 (c) 2001 Informania Ltd.

File 149:TGG Health&Wellness DB(SM) 1976-2006/Sep W2
 (c) 2006 The Gale Group
 File 156:ToxFile 1965-2006/Sep W3
 (c) format only 2006 Dialog
 File 159:Cancerlit 1975-2002/Oct
 (c) format only 2002 Dialog
***File 159: Cancerlit is no longer updating.**
 Please see HELP NEWS159.
 File 162:Global Health 1983-2006/Aug
 (c) 2006 CAB International
 File 266:FEDRIP 2006/Aug
 Comp & dist by NTIS, Intl Copyright All Rights Res
 File 399:CA SEARCH(R) 1967-2006/UD=14514
 (c) 2006 American Chemical Society
***File 399: Use is subject to the terms of your user/customer agreement.**
 IPCR/8 classification codes now searchable as IC=. See HELP NEWSIPCR.
 File 444:New England Journal of Med. 1985-2006/Sep W3
 (c) 2006 Mass. Med. Soc.

Set	Items	Description
? s	(crystal\$)(n90)	(floppy or unstructured or mobile or flexible)
	0	CRYSTAL\$
	9425	FLOPPY
	31040	UNSTRUCTURED
	439829	MOBILE
	372463	FLEXIBLE
S1	0	(CRYSTAL\$)(N90)(FLOPPY OR UNSTRUCTURED OR MOBILE OR FLEXIBLE)
? s	(crystal?)(n90)	(floppy or unstructured or mobile or flexible)
Processed 30 of 37 files ...		
Completed processing all files		
	3973719	CRYSTAL?
	9425	FLOPPY
	31040	UNSTRUCTURED
	439829	MOBILE
	372463	FLEXIBLE
S2	22070	(CRYSTAL?)(N90)(FLOPPY OR UNSTRUCTURED OR MOBILE OR FLEXIBLE)
? s	(crystal?)(n40)	(floppy or unstructured or mobile or flexible)
	3973719	CRYSTAL?
	9425	FLOPPY
	31040	UNSTRUCTURED
	439829	MOBILE
	372463	FLEXIBLE
S3	15951	(CRYSTAL?)(N40)(FLOPPY OR UNSTRUCTURED OR MOBILE OR FLEXIBLE)
? s	s2 and	(removal or deletion)
	22070	S2
	1536257	REMOVAL
	658529	DELETION
S4	597	S2 AND (REMOVAL OR DELETION)
? s	s4 and	crystallization
	597	S4
	550393	CRYSTALLIZATION
S5	124	S4 AND CRYSTALLIZATION
? rd		

>>>Duplicate detection is not supported for File 391.

>>>Records from unsupported files will be retained in the RD set.

S6 68 RD (unique items)

? s s6 and py<=2002

Processing

Processing

Processed 10 of 37 files ...

Processing

Processed 20 of 37 files ...

Processing

>>>One or more prefixes are unsupported

>>> or undefined in one or more files.

Processing

Processed 30 of 37 files ...

Processing

Completed processing all files

68 S6

123775317 PY<=2002

S7 45 S6 AND PY<=2002

? t s7/medium/1-20

7/3/1 (Item 1 from file: 155)

DIALOG(R)File 155:MEDLINE(R)

(c) format only 2006 Dialog. All rts. reserv.

13970050 PMID: 12383264

Purification, crystallization , NMR spectroscopy and biochemical analyses of alpha-phycoerythrocyanin peptides.

Wiegand Georg; Parbel Axel; Seifert Markus H J; Holak Tad A; Reuter Wolfgang

Max-Planck-Institut fur Biochemie, Martinsried, Germany.

European journal of biochemistry / FEBS (Germany) Oct 2002 , 269 (20) p5046-55, ISSN 0014-2956--Print Journal Code: 0107600

Publishing Model Print

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: MEDLINE; Completed

7/3/2 (Item 2 from file: 155)

DIALOG(R)File 155:MEDLINE(R)

(c) format only 2006 Dialog. All rts. reserv.

13391610 PMID: 11563913

The structure of truncated recombinant human bile salt-stimulated lipase reveals bile salt-independent conformational flexibility at the active-site loop and provides insights into heparin binding.

Moore S A; Kingston R L; Loomes K M; Hernell O; Blackberg L; Baker H M; Baker E N

Institute of Molecular Biosciences, Massey University, Palmerston North, New Zealand.

Journal of molecular biology (England) Sep 21 2001 , 312 (3)

p511-23, ISSN 0022-2836--Print Journal Code: 2985088R

Publishing Model Print

Document type: Journal Article
Languages: ENGLISH
Main Citation Owner: NLM
Record type: MEDLINE; Completed

7/3/3 (Item 3 from file: 155)
DIALOG(R) File 155:MEDLINE(R)
(c) format only 2006 Dialog. All rts. reserv.

13340920 PMID: 11500215
Mechanism of interaction between cellulase action and applied shear force, an hypothesis.
Lenting H B; Warmoeskerken M M
Textile Technology Group, Department of Chemical Engineering, University of Twente, PO Box 217, 7500 AE, Enschede, The Netherlands.
h.lenting@ind.tno.nl
Journal of biotechnology (Netherlands) Aug 23 2001 , 89 (2-3)
p217-26, ISSN 0168-1656--Print Journal Code: 8411927
Publishing Model Print
Document type: Journal Article
Languages: ENGLISH
Main Citation Owner: NLM
Record type: MEDLINE; Completed

7/3/4 (Item 4 from file: 155)
DIALOG(R) File 155:MEDLINE(R)
(c) format only 2006 Dialog. All rts. reserv.

13210175 PMID: 11343787
Crystal structure of destripeptide (B28-B30) insulin: implications for insulin dissociation.
Ye J; Chang W; Liang D
National Laboratory of Biomacromolecules, Institute of Biophysics, Chinese Academy of Sciences, 15 Datun Road, Chaoyang District, 100101, Beijing, PR China.
Biochimica et biophysica acta (Netherlands) May 5 2001 , 1547 (1)
p18-25, ISSN 0006-3002--Print Journal Code: 0217513
Publishing Model Print
Document type: Journal Article
Languages: ENGLISH
Main Citation Owner: NLM
Record type: MEDLINE; Completed

7/3/5 (Item 5 from file: 155)
DIALOG(R) File 155:MEDLINE(R)
(c) format only 2006 Dialog. All rts. reserv.

12902044 PMID: 10906335
Preparation and crystallization of dynamic NF-kappa B.Ikappa B complexes.
Huxford T; Malek S; Ghosh G
Department of Chemistry and Biochemistry, University of California at San Diego, La Jolla, California 92037-0359, USA.
Journal of biological chemistry (UNITED STATES) Oct 20 2000 , 275

(42) p32800-6, ISSN 0021-9258--Print Journal Code: 2985121R
Contract/Grant No.: 5POCA23100-16; CA; NCI; CA78749; CA; NCI
Publishing Model Print
Document type: Journal Article
Languages: ENGLISH
Main Citation Owner: NLM
Record type: MEDLINE; Completed

7/3/6 (Item 6 from file: 155)
DIALOG(R)File 155:MEDLINE(R)
(c) format only 2006 Dialog. All rts. reserv.

12557662 PMID: 10506428
Direct chromatographic resolution and isolation of the four stereoisomers of meta-hydroxyphenylpropanolamine.
Van Dort M E
Division of Nuclear Medicine, Department of Internal Medicine, University of Michigan Medical School, Ann Arbor, Michigan 48109-0552, USA.
mvandort@umich.edu
Chirality (UNITED STATES) 1999 , 11 (9) p684-8, ISSN 0899-0042--
Print Journal Code: 8914261
Contract/Grant No.: HL27555; HL; NHLBI; HL47543; HL; NHLBI
Publishing Model Print
Document type: Journal Article
Languages: ENGLISH
Main Citation Owner: NLM
Record type: MEDLINE; Completed

7/3/7 (Item 7 from file: 155)
DIALOG(R)File 155:MEDLINE(R)
(c) format only 2006 Dialog. All rts. reserv.

12543210 PMID: 10489469
Crystal engineering: deletion mutagenesis of the 24 kDa fragment of the DNA gyrase B subunit from Staphylococcus aureus.
Dale G E; Kostrewa D; Gsell B; Stieger M; D'Arcy A
F. Hoffmann-La Roche Ltd. Pharma Preclinical Research, CH-4070, Basel, Switzerland. glenn.dale@roche.com
Acta crystallographica. Section D, Biological crystallography (DENMARK)
Sep 1999 , 55 (Pt 9) p1626-9, ISSN 0907-4449--Print Journal Code: 9305878
Publishing Model Print
Document type: Journal Article
Languages: ENGLISH
Main Citation Owner: NLM
Record type: MEDLINE; Completed

7/3/8 (Item 8 from file: 155)
DIALOG(R)File 155:MEDLINE(R)
(c) format only 2006 Dialog. All rts. reserv.

12356434 PMID: 10198633
Structural basis for paramyxovirus-mediated membrane fusion.
Baker K A; Dutch R E; Lamb R A; Jardetzky T S

Department of Biochemistry, Molecular Biology, and Cell Biology,
Northwestern University, Evanston, Illinois 60208-3500, USA.
Molecular cell (UNITED STATES) Mar 1999 , 3 (3) p309-19, ISSN
1097-2765--Print Journal Code: 9802571
Contract/Grant No.: AI-23173; AI; NIAID; AI-38972; AI; NIAID; F32AI-09607
; AI; NIAID
Publishing Model Print
Document type: Journal Article
Languages: ENGLISH
Main Citation Owner: NLM
Record type: MEDLINE; Completed

7/3/9 (Item 9 from file: 155)
DIALOG(R) File 155:MEDLINE(R)
(c) format only 2006 Dialog. All rts. reserv.

11934855 PMID: 9761692
**Crystal structure of carbonic anhydrase from Neisseria gonorrhoeae and
its complex with the inhibitor acetazolamide.**
Huang S; Xue Y; Sauer-Eriksson E; Chirica L; Lindskog S; Jonsson B H
Department of Biochemistry, Umea University, Umea, S-90187, Sweden.
Journal of molecular biology (ENGLAND) 1998 , 283 (1) p301-10,
ISSN 0022-2836--Print Journal Code: 2985088R
Publishing Model Print
Document type: Journal Article
Languages: ENGLISH
Main Citation Owner: NLM
Record type: MEDLINE; Completed

7/3/10 (Item 10 from file: 155)
DIALOG(R) File 155:MEDLINE(R)
(c) format only 2006 Dialog. All rts. reserv.

10447342 PMID: 7739036
**Multiple crystal forms of endoglucanase CelD: signal peptide residues
modulate lattice formation.**
Chitarra V; Souchon H; Spinelli S; Juy M; Beguin P; Alzari P M
Unite d'Immunologie, Structural (URA 359 CNRS), France.
Journal of molecular biology (ENGLAND) Apr 28 1995 , 248 (2)
p225-32, ISSN 0022-2836--Print Journal Code: 2985088R
Publishing Model Print
Document type: Journal Article
Languages: ENGLISH
Main Citation Owner: NLM
Record type: MEDLINE; Completed

7/3/11 (Item 11 from file: 155)
DIALOG(R) File 155:MEDLINE(R)
(c) format only 2006 Dialog. All rts. reserv.

10024848 PMID: 8161503
**The dynamic behavior of annexin V as a function of calcium ion binding: a
circular dichroism, UV absorption, and steady-state and time-resolved
fluorescence study.**

Sopkova J; Gallay J; Vincent M; Pancoska P; Lewit-Bentley A
LURE, Centre Universitaire Paris-Sud, Orsay, France.
Biochemistry (UNITED STATES) Apr 19 1994 , 33 (15) p4490-9, ISSN
0006-2960--Print Journal Code: 0370623
Publishing Model Print
Document type: Journal Article
Languages: ENGLISH
Main Citation Owner: NLM
Record type: MEDLINE; Completed

7/3/12 (Item 12 from file: 155)
DIALOG(R)File 155:MEDLINE(R)
(c) format only 2006 Dialog. All rts. reserv.

05535138 PMID: 7251342
Self-assembly of fibrin monomer. A light scattering and electron
microscopic investigation.
Cavazza B; Cuniberti C; Patrone E; Pioli F; Rocco M; Trefiletti V
Italian journal of biochemistry (ITALY) Jan-Feb 1981 , 30 (1)
p75-89, ISSN 0021-2938--Print Journal Code: 0376564
Publishing Model Print
Document type: Journal Article
Languages: ENGLISH
Main Citation Owner: NLM
Record type: MEDLINE; Completed

7/3/13 (Item 1 from file: 5)
DIALOG(R)File 5:Biosis Previews(R)
(c) 2006 The Thomson Corporation. All rts. reserv.

0015338812 BIOSIS NO.: 200510033312
Geochemistry and petrogenesis of a late proterozoic volcanic sequence in
the Magal Gebriel Area, south eastern Desert, Egypt
AUTHOR: El-Shazly S M (Reprint); Hegazy H A
AUTHOR ADDRESS: Univ Alexandria, Dept Geol, Alexandria, Egypt**Egypt
JOURNAL: Qatar University Science Journal 20 p181-195 00 2000
ISSN: 1023-8948
DOCUMENT TYPE: Article
RECORD TYPE: Abstract
LANGUAGE: English

7/3/14 (Item 2 from file: 5)
DIALOG(R)File 5:Biosis Previews(R)
(c) 2006 The Thomson Corporation. All rts. reserv.

0013621762 BIOSIS NO.: 200200215273
Crystallographic studies on the role of the C-terminal segment of human
angiogenin in defining enzymatic potency
AUTHOR: Leonidas Demetres D; Shapiro Robert; Subbarao Gowtham V; Russo
Aniello; Acharya K Ravi (Reprint)
AUTHOR ADDRESS: Department of Biology and Biochemistry, University of Bath,
Claverton Down, Bath, BA2 7AY, UK**UK
JOURNAL: Biochemistry 41 (8): p2552-2562 February 26, 2002 2002
MEDIUM: print

ISSN: 0006-2960
DOCUMENT TYPE: Article
RECORD TYPE: Abstract
LANGUAGE: English

7/3/15 (Item 3 from file: 5)
DIALOG(R)File 5:BIOSIS Previews(R)
(c) 2006 The Thomson Corporation. All rts. reserv.

0012813980 BIOSIS NO.: 200000532293
Preparation and crystallization of dynamic NF-kappaB cent dot I kappa B complexes
AUTHOR: Huxford Tom; Malek Shiva; Ghosh Gourisankar (Reprint)
AUTHOR ADDRESS: Dept. of Chemistry and Biochemistry, University of California at San Diego, 9500 Gilman Dr., mail code 0359, La Jolla, CA, 92037-0359; gghosh@chem.ucsd.edu, USA**USA
JOURNAL: Journal of Biological Chemistry 275 (42): p32800-32806 October 20, 2000 2000
MEDIUM: print
ISSN: 0021-9258

DOCUMENT TYPE: Article
RECORD TYPE: Abstract
LANGUAGE: English

7/3/16 (Item 4 from file: 5)
DIALOG(R)File 5:BIOSIS Previews(R)
(c) 2006 The Thomson Corporation. All rts. reserv.

0011803958 BIOSIS NO.: 199900063618
Preparative high-performance liquid chromatography of echinocandins
AUTHOR: Roush David J (Reprint); Anita Firoz D; Goklen Kent E
AUTHOR ADDRESS: Merck Co. Inc., BioProcess R D BioPurification Development Group, P.O. Box 2000, RY806-100, Rahway, NJ 07065, USA**USA
JOURNAL: Journal of Chromatography A 827 (2): p373-389 Dec. 11, 1998 1998
MEDIUM: print
ISSN: 0021-9673
DOCUMENT TYPE: Article
RECORD TYPE: Abstract
LANGUAGE: English

7/3/17 (Item 1 from file: 34)
DIALOG(R)File 34:SciSearch(R) Cited Ref Sci
(c) 2006 The Thomson Corp. All rts. reserv.

09091213 Genuine Article#: 366KD No. References: 36
Title: Preparation and crystallization of dynamic NF-kappa B center dot I kappa B complexes
Author(s): Huxford T; Malek S; Ghosh G (REPRINT)
Corporate Source: UNIV CALIF SAN DIEGO, DEPT CHEM & BIOCHEM, MAIL CODE 0359, 9500 GILMAN DR/LA JOLLA//CA/92037 (REPRINT); UNIV CALIF SAN DIEGO, DEPT CHEM & BIOCHEM/LA JOLLA//CA/92037
Journal: JOURNAL OF BIOLOGICAL CHEMISTRY, 2000, V275, N42 (OCT 20), P 32800-32806

ISSN: 0021-9258 Publication date: 20001020
Publisher: AMER SOC BIOCHEMISTRY MOLECULAR BIOLOGY INC, 9650 ROCKVILLE
PIKE, BETHESDA, MD 20814
Language: English Document Type: ARTICLE (ABSTRACT AVAILABLE)

7/3/18 (Item 2 from file: 34)

DIALOG(R)File 34:SciSearch(R) Cited Ref Sci
(c) 2006 The Thomson Corp. All rts. reserv.

06294321 Genuine Article#: YG647 No. References: 50
**Title: A single chain Fv fragment of P-glycoprotein-specific monoclonal
antibody C219 - Design, expression, and crystal structure at 2.4
angstrom resolution**

Author(s): Hoedemaeker FJ; Signorelli T; Johns K; Kuntz DA; Rose DR
(REPRINT)

Corporate Source: UNIV TORONTO,ONTARIO CANC INST, 610 UNIV AVE/TORONTO/ON
M5G 2M9/CANADA/ (REPRINT); UNIV TORONTO,ONTARIO CANC INST/TORONTO/ON
M5G 2M9/CANADA/; UNIV TORONTO,DEPT MED BIOPHYS/TORONTO/ON M5G
2M9/CANADA/

Journal: JOURNAL OF BIOLOGICAL CHEMISTRY, 1997 , V272, N47 (NOV 21), P
29784-29789

ISSN: 0021-9258 Publication date: 19971121
Publisher: AMER SOC BIOCHEMISTRY MOLECULAR BIOLOGY INC, 9650 ROCKVILLE
PIKE, BETHESDA, MD.20814
Language: English Document Type: ARTICLE (ABSTRACT AVAILABLE)

7/3/19 (Item 3 from file: 34)

DIALOG(R)File 34:SciSearch(R) Cited Ref Sci
(c) 2006 The Thomson Corp. All rts. reserv.

03665196 Genuine Article#: PW406 No. References: 69
**Title: SYNTHESIS AND CHARACTERIZATION OF A SEMIFLEXIBLE LIQUID-CRYSTALLINE
POLYESTER WITH A BROAD NEMATIC REGION**

Author(s): MATHER P; GRIZZUTI N; HEFFNER G; RICKER M; ROCHEFORT WE; SEITZ M
; SCHMIDT HW; PEARSON DS

Corporate Source: UNIV CALIF SANTA BARBARA,DEPT CHEM & NUCL ENGN/SANTA
BARBARA//CA/93106; UNIV CALIF SANTA BARBARA,DEPT CHEM & NUCL ENGN/SANTA
BARBARA//CA/93106; UNIV CALIF SANTA BARBARA,DEPT MAT/SANTA
BARBARA//CA/93106

Journal: LIQUID CRYSTALS, 1994 , V17, N6 (DEC), P811-826

ISSN: 0267-8292

Language: ENGLISH Document Type: ARTICLE (Abstract Available)

7/3/20 (Item 4 from file: 34)

DIALOG(R)File 34:SciSearch(R) Cited Ref Sci
(c) 2006 The Thomson Corp. All rts. reserv.

02732601 Genuine Article#: LZ491 No. References: 26
**Title: THERMOANALYTICAL AND MICROSCOPIC INVESTIGATIONS OF THE THERMAL
DEHYDRATION OF ALPHA-NICKEL (II) SULFATE HEXAHYDRATE**

Author(s): KOGA N; TANAKA H

Corporate Source: HIROSHIMA UNIV,FAC SCH EDUC,CHEM LAB,3-1-33
SHINONOME,MINAMI KU/HIROSHIMA 734//JAPAN/

Journal: JOURNAL OF THERMAL ANALYSIS, 1993 , V40, N3, P1165-1172

ISSN: 0368-4466

Language: ENGLISH Document Type: ARTICLE (Abstract Available)

? t s7/full/7

7/9/7 (Item 7 from file: 155)

DIALOG(R)File 155:MEDLINE(R)

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12543210 PMID: 10489469

Crystal engineering: deletion mutagenesis of the 24 kDa fragment of the DNA gyrase B subunit from Staphylococcus aureus.

Dale G E; Kostrewa D; Gsell B; Stieger M; D'Arcy A

F. Hoffmann-La Roche Ltd. Pharma Preclinical Research, CH-4070, Basel, Switzerland. glenn.dale@roche.com

Acta crystallographica. Section D, Biological crystallography (DENMARK)

Sep 1999 , 55 (Pt 9) p1626-9, ISSN 0907-4449--Print Journal Code: 9305878

Publishing Model Print

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: MEDLINE; Completed

Subfile: INDEX MEDICUS; Toxbib

The 24 kDa fragment of DNA gyrase B from Staphylococcus aureus was expressed in Escherichia coli and purified for **crystallization**. **Crystals** of the wild-type protein grew in the presence of cyclothialidine but proved difficult to reproduce. In order to improve the **crystallization**, the **flexible** regions of the protein were deleted by mutagenesis. The mutant proteins were analyzed by differential scanning calorimetry and the most stable mutants produced **crystals**. It was possible to reproducibly grow single well defined **crystals** in the microbatch system which belonged to the space group C2 and diffracted isotropically to approximately 2 Å resolution.

Descriptors: *Bacterial Proteins--chemistry--CH; *Bacterial Proteins--genetics--GE; *DNA Topoisomerases, Type II--chemistry--CH; *DNA Topoisomerases, Type II--genetics--GE; *Peptide Fragments--genetics--GE; *Staphylococcus aureus--enzymology--EN; Bacterial Proteins--biosynthesis--BI; Bacterial Proteins--isolation and purification--IP; **Crystallization**; Crystallography, X-Ray; DNA Gyrase; DNA Topoisomerases, Type II--biosynthesis--BI; DNA Topoisomerases, Type II--isolation and purification--IP; Escherichia coli--enzymology--EN; Escherichia coli--genetics--GE; Gene **Deletion**; Mutagenesis; Peptide Fragments--biosynthesis--BI; Peptide Fragments--chemistry--CH; Peptide Fragments--isolation and purification--IP

CAS Registry No.: 0 (Bacterial Proteins); 0 (Peptide Fragments)

Enzyme No.: EC 5.99.1.- (DNA Gyrase); EC 5.99.1.3 (DNA Topoisomerases, Type II)

Record Date Created: 19991021

Record Date Completed: 19991021

? t s7/medium/21-45

7/3/21 (Item 1 from file: 35)

DIALOG(R)File 35:Dissertation Abs Online

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02020437 ORDER NO: AADAA-I3133495

Novel simulated moving bed processes for antibiotics purification

Author: Farrenburg, Chad Austin
Degree: Ph.D.
Year: 2002
Corporate Source/Institution: Purdue University (0183)
Source: VOLUME 65/05-B OF DISSERTATION ABSTRACTS INTERNATIONAL.
PAGE 2504. 295 PAGES

7/3/22 (Item 1 from file: 50)
DIALOG(R)File 50:CAB Abstracts
(c) 2006 CAB International. All rts. reserv.

0006782246 CAB Accession Number: 19940300594
Improvement of the affination of sugar from the final crystallization .

Sorokovaya, M. A.; Slavyanskii, A. A.; Gladkova, I. G.
MTIPP, 125080 Moscow, Russia.
Sakharnaya Promyshlennost (2): p.9-11
Publication Year: 1992
ISSN: 0036-3340
Language: Russian Record Type: Abstract
Document Type: Journal article

7/3/23 (Item 1 from file: 71)
DIALOG(R)File 71:ELSEVIER BIOBASE
(c) 2006 Elsevier B.V. All rts. reserv.

02163459 2002243596
**C-terminal lysine truncation increases thermostability and enhances
chaperone-like function of porcine alphaB-crystallin**
Liao J.-H.; Lee J.-S.; Chiou S.-H.
ADDRESS: S.-H. Chiou, Institute of Biochemical Sciences, National Taiwan
University, Taipei 10617, Taiwan
EMAIL: shchiou@gate.sinica.edu.tw
Journal: Biochemical and Biophysical Research Communications, 297/2
(309-316), 2002 , United States
CODEN: BBRCA
ISSN: 0006-291X
PUBLISHER ITEM IDENTIFIER: S0006291X0202185X
DOCUMENT TYPE: Article
LANGUAGES: English SUMMARY LANGUAGES: English
NO. OF REFERENCES: 32

DESCRIPTORS:
alphaB-crystallin; C-terminal truncation mutant; Chaperone activity;
Thermostability; Circular dichroism; Small heat-shock proteins

CLASSIFICATION CODE AND DESCRIPTION:
82.2.3 - PROTEIN BIOCHEMISTRY / STRUCTURAL STUDIES / Protein
Crystallization and Crystal Structures
82.2.8 - PROTEIN BIOCHEMISTRY / STRUCTURAL STUDIES / Folding, Unfolding and
Stability

7/3/24 (Item 2 from file: 71)
DIALOG(R)File 71:ELSEVIER BIOBASE

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02091520 2002171848

The active site loop of S-adenosylmethionine synthetase modulates catalytic efficiency

Taylor J.C.; Takusagawa F.; Markham G.D.

ADDRESS: G.D. Markham, Institute for Cancer Research, Fox Chase Cancer Center, 7701 Burholme Ave., Philadelphia, PA 19111, United States

EMAIL: GD Markham@fccc.edu

Journal: Biochemistry, 41/30 (9358-9369), 2002, United States

PUBLICATION DATE: July 30, 2002

CODEN: BICHA

ISSN: 0006-2960

DOCUMENT TYPE: Article

LANGUAGES: English SUMMARY LANGUAGES: English

NO. OF REFERENCES: 65

CLASSIFICATION CODE AND DESCRIPTION:

82.5.1 - PROTEIN BIOCHEMISTRY / GENERAL ENZYMOLOGY / Active Site Structure

82.2.3 - PROTEIN BIOCHEMISTRY / STRUCTURAL STUDIES / Protein

Crystallization and Crystal Structures

7/3/25 (Item 3 from file: 71)

DIALOG(R)File 71:ELSEVIER BIOBASE

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01892110 2001254048

The structure of human liver fructose-1,6-bisphosphate aldolase

Dalby A.R.; Tolan D.R.; Littlechild J.A.

ADDRESS: J.A. Littlechild, Schools of Chemistry/Biological Sci, University of Exeter, Stocker Road, Exeter EX4 4QD, United Kingdom

EMAIL: j.a.littlechild@exeter.ac.uk

Journal: Acta Crystallographica - Section D Biological Crystallography, 57/11 (1526-1533), 2001, Denmark

CODEN: ABCRE

ISSN: 0907-4449

DOCUMENT TYPE: Article

LANGUAGES: English SUMMARY LANGUAGES: English

NO. OF REFERENCES: 55

CLASSIFICATION CODE AND DESCRIPTION:

82.2.3 - PROTEIN BIOCHEMISTRY / STRUCTURAL STUDIES / Protein

Crystallization and Crystal Structures

82.5.1 - PROTEIN BIOCHEMISTRY / GENERAL ENZYMOLOGY / Active Site Structure

82.3.6 - PROTEIN BIOCHEMISTRY / PROTEIN ENGINEERING / Mutation, Expression and Isolation

84.5.10.2 - GENETICS AND MOLECULAR BIOLOGY / EUKARYOTIC GENETICS / Human Genetics / Enzymes and other proteins

84.1.7.2 - GENETICS AND MOLECULAR BIOLOGY / MOLECULAR GENETICS / Mutagenesis / Point and **deletion** mutations

7/3/26 (Item 4 from file: 71)

DIALOG(R)File 71:ELSEVIER BIOBASE

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01537282 2000216834

**Changes to the length of the flexible linker region of the Rieske protein
impair the interaction of ubiquinol with the cytochrome bc₁ complex**

Nett J.H.; Hunte C.; Trumpower B.L.

ADDRESS: B.L. Trumpower, Department of Biochemistry, Dartmouth Medical
School, Hanover, NH 03755, United States

EMAIL: Trumpower@Dartmouth.edu

Journal: European Journal of Biochemistry, 267/18 (5777-5782), 2000 ,
United Kingdom

CODEN: EJBCA

ISSN: 0014-2956

DOCUMENT TYPE: Article

LANGUAGES: English SUMMARY LANGUAGES: English

NO. OF REFERENCES: 18

DESCRIPTORS:

Cytochrome bc₁ complex; Mitochondria; Rieske iron-sulfur protein;
Ubiquinol

CLASSIFICATION CODE AND DESCRIPTION:

82.2.3 - PROTEIN BIOCHEMISTRY / STRUCTURAL STUDIES / Protein

Crystallization and Crystal Structures

82.12.1.4 - PROTEIN BIOCHEMISTRY / OTHER PROTEINS / Haem Proteins / Other
cytochromes

7/3/27 (Item 5 from file: 71)

DIALOG(R)File 71:ELSEVIER BIOBASE

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00939656 1998180222

The crystal structure of flap endonuclease-1 from Methanococcus jannaschii

Kwang Yeon Hwang; Baek K.; Kim H.-Y.; Cho Y.

ADDRESS: Y. Cho, Structural Biology Center, Korea Inst. of Sci. and
Technology, P.O. Box 13, Cheongryang, Seoul 130-650, South Korea

EMAIL: yunje@sb4.kist.re.kr

Journal: Nature Structural Biology, 5/8 (707-713), 1998 , United States

CODEN: NSBIE

ISSN: 1072-8368

DOCUMENT TYPE: Article

LANGUAGES: English SUMMARY LANGUAGES: English

NO. OF REFERENCES: 35

CLASSIFICATION CODE AND DESCRIPTION:

82.8.3 - PROTEIN BIOCHEMISTRY / HYDROLYTIC ENZYMES (EC 3.) / Proteases,
Peptidases and Proteinases

82.2.3 - PROTEIN BIOCHEMISTRY / STRUCTURAL STUDIES / Protein

Crystallization and Crystal Structures

82.12.7.3 - PROTEIN BIOCHEMISTRY / OTHER PROTEINS / Microbial Proteins /
Bacterial

7/3/28 (Item 6 from file: 71)

DIALOG(R)File 71:ELSEVIER BIOBASE

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00289205 95101620

The D-helix in myoglobin and in the beta subunit of hemoglobin is required for the retention of heme

Whitaker T.L.; Berry M.B.; Ho E.L.; Hargrove M.S.; Phillips Jr. G.N.; Komiyama N.H.; Nagai K.; Olson J.S.

ADDRESS: J.S. Olson, Biochemistry/Cell Biology Department, Rice University, MS 140, 6100 Main St., Houston, TX 77005-1892, United States

Journal: Biochemistry, 34/26 (8221-8226), 1995, United States

PUBLICATION DATE: 19950000

CODEN: BICHA

ISSN: 0006-2960

DOCUMENT TYPE: Article

LANGUAGES: English SUMMARY LANGUAGES: English

CLASSIFICATION CODE AND DESCRIPTION:

82.12.1.2 - PROTEIN BIOCHEMISTRY / OTHER PROTEINS / Haem Proteins / Myoglobin

82.3.7 - PROTEIN BIOCHEMISTRY / PROTEIN ENGINEERING / Mutant Proteins

82.2.3 - PROTEIN BIOCHEMISTRY / STRUCTURAL STUDIES / Protein Crystallization and Crystal Structures

7/3/29 (Item 1 from file: 94)

DIALOG(R) File 94:JICST-EPlus

(c)2006 Japan Science and Tech Corp(JST). All rts. reserv.

03381826 JICST ACCESSION NUMBER: 97A0898087 FILE SEGMENT: JICST-E
Formation mechanism of ferrierite membranes synthesized by vapor-phase transport method.

MATSUFUJI TAKAAKI (1); NISHIYAMA NORIKAZU (1); UHEYAMA KOREKAZU (1); MATSUKATA MASAHIKO (2)

(1) Osaka Univ., Fac. of Eng. Sci.; (2) Waseda Univ., Sch. of Sci. & Eng. Shokubai(Catalysts & Catalysis), 1997, VOL.39,NO.6, PAGE.448-451, FIG.7, REF.7

JOURNAL NUMBER: F0319AAE ISSN NO: 0559-8958 CODEN: SHKUA

UNIVERSAL DECIMAL CLASSIFICATION: 539.23:546 549.057

LANGUAGE: Japanese COUNTRY OF PUBLICATION: Japan

DOCUMENT TYPE: Journal

ARTICLE TYPE: Short Communication

MEDIA TYPE: Printed Publication

7/3/30 (Item 1 from file: 357)

DIALOG(R) File 357:Derwent Biotech Res.

(c) 2006 The Thomson Corp. All rts. reserv.

0047969 DBR Accession No.: 86-05817

Isolation of artemisinin (qinghaosu) and its separation from artemisitene using the Ito multilayer coil separator-extractor and isolation of arteannuin B - antimalarial from Artemisia annua

AUTHOR: Acton N; Klayman D L; Rollman I J; Novotny J F

CORPORATE AFFILIATE: Starks-Ass.

CORPORATE SOURCE: Department of Medicinal Chemistry, Division of Experimental Therapeutics, Walter Reed Army Institute of Research, Washington, DC 20307, USA.

JOURNAL: J.Chromatogr. (355, 2, 448-50) . 1986

CODEN: JOCRAM

LANGUAGE: English

7/3/31 (Item 1 from file: 370)

DIALOG(R)File 370:Science

(c) 1999 AAAS. All rts. reserv.

00508610 (USE 9 FOR FULLTEXT)

**Self-Assembly of Ordered Microporous Materials from Rod-Coil Block
Copolymers**

Jenekhe, Samson A.; Chen, X. Linda

Departments of Chemical Engineering and Chemistry, University of Rochester,
Rochester, NY 14627-0166, USA.

Science Vol. 283 5400 pp. 372

Publication Date: 1-15-1999 (990115) Publication Year: 1999

Document Type: Journal ISSN: 0036-8075

Language: English

Section Heading: Research Articles

Word Count: 2450

7/3/32 (Item 2 from file: 370)

DIALOG(R)File 370:Science

(c) 1999 AAAS. All rts. reserv.

00506778 (USE 9 FOR FULLTEXT)

**Structure of the Escherichia coli RNA Polymerase α Subunit Amino-Terminal
Domain**

Zhang, Gongyi; Darst, Seth A.

Rockefeller University, 1230 York Avenue, New York, NY 10021, USA.

Science Vol. 281 5374 pp. 262

Publication Date: 7-10-1998 (980710) Publication Year: 1998

Document Type: Journal ISSN: 0036-8075

Language: English

Section Heading: Reports

Word Count: 3706

7/3/33 (Item 3 from file: 370)

DIALOG(R)File 370:Science

(c) 1999 AAAS. All rts. reserv.

00501496 (USE 9 FOR FULLTEXT)

**Crystal Structure of the Cytochrome bc₁ Complex from Bovine Heart
Mitochondria**

Xia, Di; Yu, Chang-An; Kim, Hoon; Xia, Jia-Zhi; Kachurin, Anatoly M.;

Zhang, Li; Yu, Linda; Deisenhofer, Johann

D. Xia, H. Kim, and J. Deisenhofer are in the Howard Hughes Medical

Institute and Department of Biochemistry, University of Texas

Southwestern Medical Center, Dallas, TX 75235, USA. C.-A. Yu, J.-Z. Xia,

A. M. Kachurin, L. Zhang, and L. Yu are in the Department of Biochemistry

and Molecular Biology, Oklahoma State University, Stillwater, OK 74078,

USA.

Science Vol. 277 5322 pp. 60

Publication Date: 7-04-1997 (970704) Publication Year: 1997

Document Type: Journal ISSN: 0036-8075

Language: English

Section Heading: Research Articles

Word Count: 5264

7/3/34 (Item 4 from file: 370)

DIALOG(R)File 370:Science

(c) 1999 AAAS. All rts. reserv.

00501290 (USE 9 FOR FULLTEXT)

Structural Basis for Ligand-Regulated Oligomerization of AraC

Soisson, Stephen M.; MacDougall-Shackleton, Beth; Schleif, Robert;
Wolberger, Cynthia

S. M. Soisson, Department of Biophysics and Biophysical Chemistry, Johns Hopkins University School of Medicine, Baltimore, MD 21205, USA. ; B. MacDougall-Shackleton and R. Schleif, Biology Department, Johns Hopkins University, 3400 North Charles Street, Baltimore, MD 21218, USA. ; C. Wolberger, Department of Biophysics and Biophysical Chemistry and the Howard Hughes Medical Institute, Johns Hopkins University School of Medicine, Baltimore, MD 21205, USA.

Science Vol. 276 5311 pp. 421

Publication Date: 4-18-1997 (970418) Publication Year: 1997

Document Type: Journal ISSN: 0036-8075

Language: English

Section Heading: Reports

Word Count: 3714

7/3/35 (Item 1 from file: 149)

DIALOG(R)File 149:TGG Health&Wellness DB(SM)

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01486708 SUPPLIER NUMBER: 15640220 (USE FORMAT 7 OR 9 FOR FULL TEXT)

Crystal structure of a p53 tumor suppressor-DNA complex: understanding tumorigenic mutations. (Cover Story)

Cho, Yunje; Gorina, Svetlana; Jeffrey, Philip D.; Pavletich, Nikola P.

Science, v265, n5170, p346(10)

July 15,

1994

DOCUMENT TYPE: Cover Story PUBLICATION FORMAT: Magazine/Journal . ISSN: 0036-8075 LANGUAGE: English RECORD TYPE: Fulltext; Abstract

TARGET AUDIENCE: Academic

WORD COUNT: 7713 LINE COUNT: 00596

SPECIAL FEATURES: illustration; table; chart; graph

DESCRIPTORS: Tumor suppressor genes--Research; Cancer--Genetic aspects

FILE SEGMENT: MI File 47

7/3/36 (Item 2 from file: 149)

DIALOG(R)File 149:TGG Health&Wellness DB(SM)

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01480419 SUPPLIER NUMBER: 14938308 (USE FORMAT 7 OR 9 FOR FULL TEXT)

The 2.9 Å crystal structure of T. thermophilus seryl-tRNA synthetase complexed with tRNA^{ser}. (angstrom resolution, thermus, seryl-transfer ribonucleic acid)

Biou, Valerie; Yaremchuk, Anna; Tukalo, Michael; Cusack, Stephen

Science, v263, n5152, p1404(7)

March 11,
1994

PUBLICATION FORMAT: Magazine/Journal ISSN: 0036-8075 LANGUAGE: English
RECORD TYPE: Fulltext; Abstract TARGET AUDIENCE: Academic
WORD COUNT: 6347 LINE COUNT: 00501

SPECIAL FEATURES: illustration; photograph; table; chart
DESCRIPTORS: Aminoacyl-tRNA--Research
FILE SEGMENT: MI File 47

7/3/37 (Item 3 from file: 149)

DIALOG(R) File 149:TGG Health&Wellness DB(SM)
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01240314 SUPPLIER NUMBER: 09091039 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Crystal structures of an antibody to a peptide and its complex with peptide antigen at 2.8 angstroms.

Stanfield, Robyn L.; Fieser, Terry M.; Lerner, Richard A.; Wilson, Ian A.
Science, v248, n4956, p712(8)

May 11,
1990

PUBLICATION FORMAT: Magazine/Journal ISSN: 0036-8075 LANGUAGE: English
RECORD TYPE: Fulltext; Abstract TARGET AUDIENCE: Academic
WORD COUNT: 5147 LINE COUNT: 00478

SPECIAL FEATURES: illustration; table; diagram; diagnostic image
DESCRIPTORS: Antibodies--Research; Immunospecificity--Research; Binding sites (Biochemistry)--Research; Peptides--Immunological aspects
FILE SEGMENT: MI File 47

7/3/38 (Item 4 from file: 149)

DIALOG(R) File 149:TGG Health&Wellness DB(SM)
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01148668 SUPPLIER NUMBER: 06645988 (USE FORMAT 7 OR 9 FOR FULL TEXT)
DNA binding by proteins.

Schleif, Robert
Science, v241, n4870, p1182(6)
Sept 2,
1988

PUBLICATION FORMAT: Magazine/Journal ISSN: 0036-8075 LANGUAGE: English
RECORD TYPE: Fulltext TARGET AUDIENCE: Academic
WORD COUNT: 4377 LINE COUNT: 00415

SPECIAL FEATURES: illustration; chart
DESCRIPTORS: DNA binding proteins--Research; Nucleotide sequence--Analysis; Chemistry, Physical and theoretical--Research; Molecular structure--Analysis
FILE SEGMENT: MI File 47

7/3/39 (Item 5 from file: 149)

DIALOG(R) File 149:TGG Health&Wellness DB(SM)
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01101879 SUPPLIER NUMBER: 04601518 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Structure of the DNA-Eco RI endonuclease recognition complex at 3A resolution.

McClarin, Judith A.; Frederick, Christin A.; Wang, Bi-Cheng; Greene, Patricia; Boyer, Herbert W.; Grable, John; Rosenberg, John M.
Science, v234, p1526(16)

Dec 19,

1986

PUBLICATION FORMAT: Magazine/Journal ISSN: 0036-8075 LANGUAGE: English

RECORD TYPE: Fulltext TARGET AUDIENCE: Academic

WORD COUNT: 10370 LINE COUNT: 01112

SPECIAL FEATURES: illustration; table; chart

DESCRIPTORS: Protein research--Genetic aspects; DNA--Research

FILE SEGMENT: MI File 47

7/3/40 (Item 6 from file: 149)

DIALOG(R)File 149:TGG Health&Wellness DB(SM)

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01099266 SUPPLIER NUMBER: 04163484 (USE FORMAT 7 OR 9 FOR FULL TEXT)

Gordon Research Conferences. (Summer, 1986)

Cruickshank, Alexander M.

Science, v231, p1163(37)

March 7,

1986

PUBLICATION FORMAT: Magazine/Journal ISSN: 0036-8075 LANGUAGE: English

RECORD TYPE: Fulltext TARGET AUDIENCE: Academic

WORD COUNT: 28553 LINE COUNT: 03203

SPECIAL FEATURES: illustration; forms

DESCRIPTORS: Gordon Research Conferences--Conferences, meetings, seminars, etc.; Research--Conferences, meetings, seminars, etc.; Science--Conferences, meetings, seminars, etc.; Chemistry--Conferences, meetings, seminars, etc.

FILE SEGMENT: MI File 47

7/3/41 (Item 7 from file: 149)

DIALOG(R)File 149:TGG Health&Wellness DB(SM)

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01069976 SUPPLIER NUMBER: 03165392 (USE FORMAT 7 OR 9 FOR FULL TEXT)

Gordon Research Conferences.

Cruickshank, Alexander M.

Science, v223, p941(38)

March 2,

1984

PUBLICATION FORMAT: Magazine/Journal ISSN: 0036-8075 LANGUAGE: English

RECORD TYPE: Fulltext TARGET AUDIENCE: Academic

WORD COUNT: 28223 LINE COUNT: 03164

DESCRIPTORS: Gordon Research Conferences--1984; Science--Conferences, meetings, seminars, etc.; New Hampshire--Conferences, meetings, seminars, etc.

GEOGRAPHIC CODES: NNUSNNH

GEOGRAPHIC NAMES: New Hampshire
FILE SEGMENT: MI File 47

7/3/42 (Item 8 from file: 149)

DIALOG(R)File 149:TGG Health&Wellness DB(SM)

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01057468 SUPPLIER NUMBER: 02665462 (USE FORMAT 7 OR 9 FOR FULL TEXT)

Gordon Research Conferences. (includes schedules) (calendar)

Science, v219, p1095(35)

March 4,

1983

DOCUMENT TYPE: calendar PUBLICATION FORMAT: Magazine/Journal ISSN:

0036-8075 LANGUAGE: English RECORD TYPE: Fulltext TARGET AUDIENCE:

Academic

WORD COUNT: 26464 LINE COUNT: 03173

DESCRIPTORS: Gordon Research Conferences--1983; Chemists--Conferences,
meetings, seminars, etc.

FILE SEGMENT: MI File 47

7/3/43 (Item 1 from file: 399)

DIALOG(R)File 399:CA SEARCH(R)

(c) 2006 American Chemical Society. All rts. reserv.

130176223 CA: 130(13)176223s PATENT

Manufacture of flexible semiconductor devices

INVENTOR(AUTHOR): Yuuki, Akimasa; Ko, Sanju

LOCATION: Japan,

ASSIGNEE: Mitsubishi Electric Corp.

PATENT: Japan Kokai Tokkyo Koho ; JP 9954631 A2 ; JP 1154631 DATE:
19990226

APPLICATION: JP 97213028 (19970807)

PAGES: 10 pp. CODEN: JKXXAF LANGUAGE: Japanese

PATENT CLASSIFICATIONS:

CLASS: H01L-021/8242A; H01L-027/108B; H01L-025/00B; H01L-029/786B

7/3/44 (Item 2 from file: 399)

DIALOG(R)File 399:CA SEARCH(R)

(c) 2006 American Chemical Society. All rts. reserv.

94210908 CA: 94(26)210908u PATENT

Segregating solid substances from a liquid phase

INVENTOR(AUTHOR): Blickle, Tibor; Komaromy, Zsigmond; Filka, Judit;
Gyenis, Janos; Borlai, Oszkar

LOCATION: Hung.

ASSIGNEE: Magyar Tudomanyos Akademia Muszaki Kemiai Kutato Intezet

PATENT: United States US 4256576 DATE: 810317

APPLICATION: United States US 456254 DATE: 740329

PAGES: 6 pp. CODEN: USXXAM LANGUAGE: English

PATENT CLASSIFICATIONS:

CLASS: 062538000; B01D-017/00; F28D-011/06; F28G-007/00;

7/3/45 (Item 1 from file: 444)
DIALOG(R)File 444:New England Journal of Med.
(c) 2006 Mass. Med. Soc. All rts. reserv.

00121195
Copyright 2001 by the Massachusetts Medical Society

Medical Progress: Interventional Pulmonology (Review Article)

Seijo, Luis M.; Sterman, Daniel H.
The New England Journal of Medicine
Mar 8, 2001 ; 344 (10),pp 740-749
LINE COUNT: 00522 WORD COUNT: 07215
? s (crystal engineering)
S8 805 (CRYSTAL ENGINEERING)
? rd

>>>Duplicate detection is not supported for File 391.

>>>Records from unsupported files will be retained in the RD set.
S9 684 RD (unique items)
? s s9 and protein
684 S9
11560296 PROTEIN
S10 13 S9 AND PROTEIN
? t s10/medium/all

10/3/1 (Item 1 from file: 5)
DIALOG(R)File 5:BIOSIS Previews(R)
(c) 2006 The Thomson Corporation. All rts. reserv.

0015356346 BIOSIS NO.: 200510050846
**Crystal engineering yields crystals of cyclophilin D diffracting to 1.7
angstrom resolution**

AUTHOR: Schlatter Daniel (Reprint); Thoma Ralf; Kueng Erich; Borroni Edilio
; Cesura Andrea; Hennig Michael
AUTHOR ADDRESS: F Hoffmann La Roche Ltd, Pharmaceut Discovery Res, CH-4070
Basel, Switzerland**Switzerland
AUTHOR E-MAIL ADDRESS: daniel.schlatter@roche.com; michael.hennig@roche.com
JOURNAL: Acta Crystallographica Section D Biological Crystallography 61 p
513-519 MAY 05 2005
ISSN: 0907-4449
DOCUMENT TYPE: Article
RECORD TYPE: Abstract
LANGUAGE: English

10/3/2 (Item 1 from file: 34)
DIALOG(R)File 34:SciSearch(R) Cited Ref Sci
(c) 2006 The Thomson Corp. All rts. reserv.

12640760 Genuine Article#: 807AI No. References: 23
**Title: An improved crystal form of Plasmodium falciparum peptide
deformylase**

Author(s): Robien MA; Nguyen KT; Kumar A; Hirsh I; Turley S; Pei D; Hol
WGJ (REPRINT)
Corporate Source: Univ Washington, Dept Biochem, Biomol Struct Ctr, Box

357742/Seattle//WA/98195 (REPRINT); Univ Washington, Dept Biochem,
Biomol Struct Ctr, Seattle//WA/98195; Univ Washington, Howard Hughes Med
Inst, Biomol Struct Ctr, Seattle//WA/98195; Ohio State Univ, Dept
Chem, Columbus//OH/43210; Ohio State Univ, Ohio State Biochem
Program, Columbus//OH/43210

Journal: PROTEIN SCIENCE, 2004, V13, N4 (APR), P1155-1163

ISSN: 0961-8368 Publication date: 20040400

Publisher: COLD SPRING HARBOR LAB PRESS, PUBLICATIONS DEPT, 500 SUNNYSIDE
BLVD, WOODBURY, NY 11797-2924 USA

Language: English Document Type: ARTICLE (ABSTRACT AVAILABLE)

10/3/3 (Item 2 from file: 34)

DIALOG(R) File 34:SciSearch(R) Cited Ref Sci

(c) 2006 The Thomson Corp. All rts. reserv.

11633307 Genuine Article#: 676GL No. References: 44

Title: Designing proteins to crystallize through beta-strand pairing

Author(s): Wingren C (REPRINT) ; Edmundson AB; Borrebaeck CAK

Corporate Source: Lund Univ, Dept Immunotechnol, POB 7031/SE-22007

Lund//Sweden/ (REPRINT); Lund Univ, Dept Immunotechnol, SE-22007

Lund//Sweden/; Oklahoma Med Res Fdn, Crystallog Program, Oklahoma

City//OK/73104

Journal: PROTEIN ENGINEERING, 2003, V16, N4 (APR), P255-264

ISSN: 0269-2139 Publication date: 20030400

Publisher: OXFORD UNIV PRESS, GREAT CLARENDON ST, OXFORD OX2 6DP, ENGLAND

Language: English Document Type: ARTICLE (ABSTRACT AVAILABLE)

10/3/4 (Item 3 from file: 34)

DIALOG(R) File 34:SciSearch(R) Cited Ref Sci

(c) 2006 The Thomson Corp. All rts. reserv.

11070753 Genuine Article#: 603LB No. References: 49

Title: Peptide structures

Author(s): Gorbitz CH (REPRINT)

Corporate Source: Univ Oslo, Dept Chem, POB 1033/N-0315 Oslo//Norway/

(REPRINT); Univ Oslo, Dept Chem, N-0315 Oslo//Norway/

Journal: CURRENT OPINION IN SOLID STATE & MATERIALS SCIENCE, 2002, V6, N2 (APR), P109-116

ISSN: 1359-0286 Publication date: 20020400

Publisher: PERGAMON-ELSEVIER SCIENCE LTD, THE BOULEVARD, LANGFORD LANE,
KIDLINGTON, OXFORD OX5 1GB, ENGLAND

Language: English Document Type: REVIEW (ABSTRACT AVAILABLE)

10/3/5 (Item 4 from file: 34)

DIALOG(R) File 34:SciSearch(R) Cited Ref Sci

(c) 2006 The Thomson Corp. All rts. reserv.

11024085 Genuine Article#: 597YH No. References: 19

Title: Protein L mutants for the crystallization of antibody fragments

Author(s): Stura EA (REPRINT) ; Graille M; Housden NG; Gore MG

Corporate Source: Ctr Etud Saclay, CEA, Dept Ingn & Etud Prot, F-91191 Gif

Sur Yvette//France/ (REPRINT); Ctr Etud Saclay, CEA, Dept Ingn & Etud

Prot, F-91191 Gif Sur Yvette//France/; Univ Southampton, Inst Biomol Sci,

Dept Biochem, Southampton SO16 7PX/Hants/England/

Journal: ACTA CRYSTALLOGRAPHICA SECTION D-BIOLOGICAL CRYSTALLOGRAPHY, 2002
, V58, 10,1 (OCT), P1744-1748
ISSN: 0907-4449 Publication date: 20021000
Publisher: BLACKWELL MUNKSGAARD, 35 NORRE SOGADE, PO BOX 2148, DK-1016
COPENHAGEN, DENMARK
Language: English Document Type: ARTICLE (ABSTRACT AVAILABLE)

10/3/6 (Item 5 from file: 34)

DIALOG(R)File 34:SciSearch(R) Cited Ref Sci
(c) 2006 The Thomson Corp. All rts. reserv.

11024082 Genuine Article#: 597YH No. References: 20

**Title: Crystal contacts engineering of aspartyl-tRNA synthetase from
Thermus thermophilus: effects on crystallizability**

Author(s): Charron C; Kern D; Giege R (REPRINT)

Corporate Source: CNRS,Inst Biol Mol & Cellulaire, UPR.Struct Macromol Biol
& Mecanismes Reconnaissance, ,15 Rue Rene Descartes/F-67084
Strasbourg//France/ (REPRINT); CNRS,Inst Biol Mol & Cellulaire, UPR
Struct Macromol Biol & Mecanismes Reconnaissance, ,F-67084
Strasbourg//France/

Journal: ACTA CRYSTALLOGRAPHICA SECTION D-BIOLOGICAL CRYSTALLOGRAPHY, 2002
, V58, 10,1 (OCT), P1729-1733

ISSN: 0907-4449 Publication date: 20021000

Publisher: BLACKWELL MUNKSGAARD, 35 NORRE SOGADE, PO BOX 2148, DK-1016
COPENHAGEN, DENMARK

Language: English Document Type: ARTICLE (ABSTRACT AVAILABLE)

10/3/7 (Item 6 from file: 34)

DIALOG(R)File 34:SciSearch(R) Cited Ref Sci
(c) 2006 The Thomson Corp. All rts. reserv.

10007564 Genuine Article#: 473KL No. References: 35

**Title: Packing contacts in orthorhombic and monoclinic crystals of a
thermophilic aspartyl-tRNA synthetase favor the hydrophobic regions of
the protein**

Author(s): Charron C; Sauter C; Zhu DW; Ng JD; Kern D; Lorber B; Giege R
(REPRINT)

Corporate Source: CNRS,Inst Biol Mol & Cellulaire, UPR 9002, Dept
Mecanismes & Macromol Synth Prote & ,15 Rue Rene Descartes/F-67084
Strasbourg//France/ (REPRINT); CNRS,Inst Biol Mol & Cellulaire, UPR
9002, Dept Mecanismes & Macromol Synth Prote & ,F-67084
Strasbourg//France/

Journal: JOURNAL OF CRYSTAL GROWTH, 2001, V232, N1-4 (NOV), P376-386

ISSN: 0022-0248 Publication date: 20011100

Publisher: ELSEVIER SCIENCE BV, PO BOX 211, 1000 AE AMSTERDAM, NETHERLANDS

Language: English Document Type: ARTICLE (ABSTRACT AVAILABLE)

10/3/8 (Item 7 from file: 34)

DIALOG(R)File 34:SciSearch(R) Cited Ref Sci
(c) 2006 The Thomson Corp. All rts. reserv.

09490033 Genuine Article#: 412HL No. References: 217

Title: Self-assembling organic nanotubes

Author(s): Bong DT; Clark TD; Granja JR; Ghadiri MR (REPRINT)

Corporate Source: Scripps Clin & Res Fdn, Res Inst, Dept Chem, 10550 N Torrey Pines Rd/La Jolla//CA/92037 (REPRINT); Scripps Clin & Res Fdn, Res Inst, Dept Chem, La Jolla//CA/92037; Scripps Clin & Res Fdn, Res Inst, Dept Mol Biol, La Jolla//CA/92037; Scripps Clin & Res Fdn, Res Inst, Skaggs Inst Chem Biol, La Jolla//CA/92037; Harvard Univ, Dept Chem & Biol Chem, Cambridge//MA/02138; Univ Santiago de Compostela, Fac Quim, Dept Quim Organ, Santiago De Compostela 15706//Spain/

Journal: ANGEWANDTE CHEMIE-INTERNATIONAL EDITION, 2001, V40, N6, P988-1011

ISSN: 1433-7851 Publication date: 20010000

Publisher: WILEY-V C H VERLAG GMBH, PO BOX 10 11 61, D-69451 BERLIN, GERMANY

Language: English Document Type: REVIEW

10/3/9 (Item 8 from file: 34)

DIALOG(R) File 34:SciSearch(R) Cited Ref Sci

(c) 2006 The Thomson Corp. All rts. reserv.

07949601 Genuine Article#: 228EH No. References: 30

Title: Self-assembly of a tetrahedral lectin into predesigned diamondlike protein crystals

Author(s): Dotan N; Arad D; Frolow F; Freeman A (REPRINT)

Corporate Source: TEL AVIV UNIV, FAC LIFE SCI, DEPT MOL MICROBIOL & BIOTECHNOL/IL-69978 TEL AVIV//ISRAEL/ (REPRINT); TEL AVIV UNIV, FAC LIFE SCI, DEPT MOL MICROBIOL & BIOTECHNOL/IL-69978 TEL AVIV//ISRAEL/

Journal: ANGEWANDTE CHEMIE-INTERNATIONAL EDITION, 1999, V38, N16, P 2363-2366

ISSN: 1433-7851 Publication date: 19990000

Publisher: WILEY-V C H VERLAG GMBH, MUHLENSTRASSE 33-34, D-13187 BERLIN, GERMANY

Language: English Document Type: ARTICLE

10/3/10 (Item 9 from file: 34)

DIALOG(R) File 34:SciSearch(R) Cited Ref Sci

(c) 2006 The Thomson Corp. All rts. reserv.

07837171 Genuine Article#: 213KL No. References: 29

Title: Packed protein bilayers in the 0.90 angstrom resolution structure of a designed alpha helical bundle

Author(s): Prive GG; Anderson DH; Wesson L; Cascio D; Eisenberg D (REPRINT)

Corporate Source: UNIV CALIF LOS ANGELES, DOE, INST MOL BIOL, LAB STRUCT BIOL & MOL MED, BOX 951570/LOS ANGELES//CA/90095 (REPRINT); UNIV CALIF LOS ANGELES, DOE, INST MOL BIOL, LAB STRUCT BIOL & MOL MED/LOS ANGELES//CA/90095; UNIV CALIF LOS ANGELES, DEPT CHEM & BIOCHEM/LOS ANGELES//CA/90095; UNIV TORONTO, ONTARIO CANC INST/TORONTO/ON M5G 2M9/CANADA/

Journal: PROTEIN SCIENCE, 1999, V8, N7 (JUL), P1400-1409

ISSN: 0961-8368 Publication date: 19990700

Publisher: CAMBRIDGE UNIV PRESS, 40 WEST 20TH STREET, NEW YORK, NY 10011-4211

Language: English Document Type: ARTICLE (ABSTRACT AVAILABLE)

10/3/11 (Item 10 from file: 34)

DIALOG(R) File 34:SciSearch(R) Cited Ref Sci

(c) 2006 The Thomson Corp. All rts. reserv.

06027745 Genuine Article#: XQ361 No. References: 21

Title: Use of a fusion protein to obtain crystals suitable for X-ray analysis: Crystallization of a GST-fused protein containing the DNA-binding domain of DNA replication-related element-binding factor, DREF

Author(s): Kuge M; Fujii Y; Shimizu T; Hirose F; Matsukage A; Hakoshima T
(REPRINT)

Corporate Source: NARA INST SCI & TECHNOL, DEPT MOL BIOL, 8916-5
TAKAYAMA/NARA 63001//JAPAN/ (REPRINT); NARA INST SCI & TECHNOL, DEPT MOL
BIOL/NARA 63001//JAPAN/; AICHI CANC CTR, RES INST, CELL BIOL LAB,
CHIGUSA KU/NAGOYA/AICHI 464/JAPAN/

Journal: PROTEIN SCIENCE, 1997, V6, N8 (AUG), P1783-1786

ISSN: 0961-8368 Publication date: 19970800

Publisher: CAMBRIDGE UNIV PRESS, 40 WEST 20TH STREET, NEW YORK, NY
10011-4211

Language: English Document Type: ARTICLE (ABSTRACT AVAILABLE)

10/3/12 (Item 1 from file: 65)

DIALOG(R) File 65: Inside Conferences

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03003712 INSIDE CONFERENCE ITEM ID: CN031823321 .

Computational Studies of Molecular Recognition from Alkane Dimers to Protein-Ligand Complexes

Jorgensen, W. L.; Duffy, E. M.; Essex, J. W.; Severance, D. L.

CONFERENCE: Crystal engineering: the design and application of functional
solids-NATO Advanced Study Institute

NATO ASI SERIES C MATHEMATICAL AND PHYSICAL SCIENCES, 1999; VOL 539 P:
113-126

Dordrecht, Kluwer Academic, 1999

ISBN: 0792359054

LANGUAGE: English DOCUMENT TYPE: Conference Selected papers

CONFERENCE EDITOR(S): Seddon, K. R.; Zaworotko, M.

CONFERENCE LOCATION: Digby, Canada

CONFERENCE DATE: Sep 1996 (199609) (199609)

10/3/13 (Item 1 from file: 71)

DIALOG(R) File 71: ELSEVIER BIOBASE

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01565706 2000225545

Crystals of the urokinase type plasminogen activator betac-uPA in complex with small inhibitors open the way towards structure-based drug design

Zeslowska E.; Schweinitz A.; Karcher A.; Sondermann P.; Sperl S.;
Sturzebecher J.; Jacob U.

ADDRESS: U. Jacob, Max-Planck-Institut fur Biochemie, Abteilung
Strukturforschung, Am Klopferspitz 18a, D-82152 Martinsried,
Germany

EMAIL: ujacob@biochem.mpg.de

Journal: Journal of Molecular Biology, 301/2 (465-475), 2000, United
Kingdom

PUBLICATION DATE: August 11, 2000

CODEN: JMOBA

ISSN: 0022-2836

DOCUMENT TYPE: Article

LANGUAGES: English

SUMMARY LANGUAGES: English

NO. OF REFERENCES: 34

DESCRIPTORS:

Urokinase; Amiloride; Crystal structure; **Crystal engineering** ; Drug design

CLASSIFICATION CODE AND DESCRIPTION:

82.7.4 - **PROTEIN** BIOCHEMISTRY / TRANSFERASES (EC 2.) / **Protein** Kinases

82.2.3 - **PROTEIN** BIOCHEMISTRY / STRUCTURAL STUDIES / **Protein**

Crystallization and Crystal Structures

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>>> or undefined in one or more files.

S11 3384774 DT=REVIEW

? s s11 and protein crystallization

3384774 S11

739 PROTEIN CRYSTALLIZATION

S12 41 S11 AND PROTEIN CRYSTALLIZATION

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>>>Records from unsupported files will be retained in the RD set.

S13 31 RD (unique items)

? s s13 and (unstructured or floppy or flexible)

31 S13

31040 UNSTRUCTURED

9425 FLOPPY

372463 FLEXIBLE

S14 0 S13 AND (UNSTRUCTURED OR FLOPPY OR FLEXIBLE)

? t s31/medium/1-15

>>>Set 31 does not exist

? t s13/medium/1-15

13/3/1 (Item 1 from file: 34)

DIALOG(R)File 34:SciSearch(R) Cited Ref Sci

(c) 2006 The Thomson Corp. All rts. reserv.

15314071 Genuine Article#: 060CG No. References: 109

Title: Structural biology and drug discovery

Author(s): Scapin G (REPRINT)

Corporate Source: Merck & Co Inc,Dept Med Chem,POB

2000,RY50-105/Rahway//NJ/07065 (REPRINT); Merck & Co Inc,Dept Med

Chem,Rahway//NJ/07065(giovanna scapin@merck.com)

Journal: CURRENT PHARMACEUTICAL DESIGN, 2006, V12, N17, P2087-2097

ISSN: 1381-6128 Publication date: 20060000

Publisher: BENTHAM SCIENCE PUBL LTD, EXECUTIVE STE Y26, PO BOX 7917, SAIF
ZONE, 1200 BR SHARJAH, U ARAB EMIRATES

Language: English Document Type: **REVIEW** (ABSTRACT AVAILABLE)

13/3/2 (Item 2 from file: 34)

DIALOG(R)File 34:SciSearch(R) Cited Ref Sci

(c) 2006 The Thomson Corp. All rts. reserv.

15176715 Genuine Article#: 045DZ No. References: 57

Title: Protein crystallization in vivo

Author(s): Doye JPK (REPRINT) ; Poon WCK

Corporate Source: Univ Cambridge, Dept Chem, Lensfield Rd/Cambridge CB2

1EW//England/ (REPRINT); Univ Cambridge, Dept Chem, Cambridge CB2

1EW//England/; Univ Edinburgh, SUPA, Edinburgh EH9

3JZ/Midlothian/Scotland/; Univ Edinburgh, Sch Phys, Edinburgh EH9

3JZ/Midlothian/Scotland/(jpkdl@cam.ac.uk)

Journal: CURRENT OPINION IN COLLOID & INTERFACE SCIENCE, 2006, V11, N1 (APR), P40-46

ISSN: 1359-0294 Publication date: 20060400

Publisher: ELSEVIER SCIENCE LONDON, 84 THEOBALDS RD, LONDON WC1X 8RR, ENGLAND

Language: English Document Type: **REVIEW** (ABSTRACT AVAILABLE)

13/3/3 (Item 3 from file: 34)

DIALOG(R)File 34:SciSearch(R) Cited Ref Sci

(c) 2006 The Thomson Corp. All rts. reserv.

14925298 Genuine Article#: BDV78 No. References: 53

Title: Structural genomics and drug discovery

Author(s): Edwards A (REPRINT) ; Berman J; Sundstrom M

Corporate Source: Univ Toronto, Struct Genom Consortium, 112 Coll

St/Toronto/ON/Canada/ (REPRINT); Univ Toronto, Struct Genom

Consortium, Toronto/ON/Canada/; Affinium Pharmaceut, Toronto/ON/Canada/;

Univ Oxford, Struct Genom Consortium, Botnar Res Ctr, Oxford OX3

7LD//England/

, 2005, V40, P349-369

ISSN: 0065-7743 Publication date: 20050000

Publisher: ELSEVIER ACADEMIC PRESS INC, 525 B STREET, SUITE 1900, SAN

DIEGO, CA 92101-4495 USA ANNUAL REPORTS IN MEDICINAL CHEMISTRY, VOL 40

Series: ANNUAL REPORTS IN MEDICINAL CHEMISTRY

Language: English Document Type: **REVIEW**

13/3/4 (Item 4 from file: 34)

DIALOG(R)File 34:SciSearch(R) Cited Ref Sci

(c) 2006 The Thomson Corp. All rts. reserv.

14879989 Genuine Article#: 015WR No. References: 108

Title: Ion hydration: Implications for cellular function, polyelectrolytes, and protein crystallization

Author(s): Collins KD (REPRINT)

Corporate Source: Univ Maryland, Sch Med, Dept Biochem & Mol Biol, 108 N

Greene St/Baltimore//MD/21201 (REPRINT); Univ Maryland, Sch Med, Dept

Biochem & Mol Biol, Baltimore//MD/21201(kcollins@umaryland.edu)

Journal: BIOPHYSICAL CHEMISTRY, 2006, V119, N3 (FEB 1), P271-281

ISSN: 0301-4622 Publication date: 20060201

Publisher: ELSEVIER SCIENCE BV, PO BOX 211, 1000 AE AMSTERDAM, NETHERLANDS

Language: English Document Type: **REVIEW** (ABSTRACT AVAILABLE)

13/3/5 (Item 5 from file: 34)

DIALOG(R)File 34:SciSearch(R) Cited Ref Sci

(c) 2006 The Thomson Corp. All rts. reserv.

14803696 Genuine Article#: 009UP No. References: 82

Title: Recent results on hydrogen and hydration in biology studied by neutron macromolecular crystallography
Author(s): Niimura N (REPRINT) ; Arai S; Kurihara K; Chatake T; Tanaka I; Bau R
Corporate Source: Ibaraki Univ, Grad Sch Sci & Engn, Inst Appl Beam Sci, 4-12-1 Nara Narusawa/Ibaraki 3168511//Japan/ (REPRINT); Ibaraki Univ, Grad Sch Sci & Engn, Inst Appl Beam Sci, Ibaraki 3168511//Japan/; Japan Atom Energy Res Inst, Neutron Sci Res Ctr, Ibaraki 3191195//Japan/; Chiba Inst Sci, Fac Pharmaceut Sci, Chiba 2880025//Japan/; Ibaraki Univ, Coll Engn, Dept Mat Sci, Ibaraki 3168511//Japan/; Univ So Calif, Dept Chem, Los Angeles//CA/90089(niimura@mx.ibaraki.ac.jp)
Journal: CELLULAR AND MOLECULAR LIFE SCIENCES, 2006, V63, N3 (FEB), P 285-300
ISSN: 1420-682X Publication date: 20060200
Publisher: BIRKHAUSER VERLAG AG, VIADUKSTRASSE 40-44, PO BOX 133, CH-4010 BASEL, SWITZERLAND
Language: English Document Type: **REVIEW** (ABSTRACT AVAILABLE)

13/3/6 (Item 6 from file: 34)
DIALOG(R) File 34:SciSearch(R) Cited Ref Sci
(c) 2006 The Thomson Corp. All rts. reserv.

14733236 Genuine Article#: 000ZO No. References: 62
Title: Colloidal behavior of proteins: Effects of the second virial coefficient on solubility, crystallization and aggregation of proteins in aqueous solution
Author(s): Valente JJ; Payne RW; Manning MC (REPRINT) ; Wilson WW; Henry CS
Corporate Source: Legacy BioDesign LLC, 1826 Monarch Circle/Loveland//CO/80538 (REPRINT); Legacy BioDesign LLC, Loveland//CO/80538; Colorado State Univ, Dept Chem, Ft Collins//CO/80523; Mississippi State Univ, Dept Chem, Starkville//MS/(legacybiodesign@cs.com)
Journal: CURRENT PHARMACEUTICAL BIOTECHNOLOGY, 2005, V6, N6 (DEC), P427-436
ISSN: 1389-2010 Publication date: 20051200
Publisher: BENTHAM SCIENCE PUBL LTD, EXECUTIVE STE Y26, PO BOX 7917, SAIF ZONE, 1200 BR SHARJAH, U ARAB EMIRATES
Language: English Document Type: **REVIEW** (ABSTRACT AVAILABLE)

13/3/7 (Item 7 from file: 34)
DIALOG(R) File 34:SciSearch(R) Cited Ref Sci
(c) 2006 The Thomson Corp. All rts. reserv.

14100589 Genuine Article#: 940RV No. References: 18
Title: Macromolecular crystallization with microfluidic free-interface diffusion
Author(s): Segelke B (REPRINT)
Corporate Source: Lawrence Livermore Natl Lab, Biol & Biotechnol Program, 7000 East Ave/Livermore//CA/94551 (REPRINT); Lawrence Livermore Natl Lab, Biol & Biotechnol Program, Livermore//CA/94551(segelkel@llnl.gov)
Journal: EXPERT REVIEW OF PROTEOMICS, 2005, V2, N2 (APR), P165-172
ISSN: 1478-9450 Publication date: 20050400
Publisher: FUTURE DRUGS LTD, UNITEC HOUSE, 3RD FL, 2 ALBERT PLACE, FINCHLEY CENTRAL, LONDON N3 1QB, ENGLAND
Language: English Document Type: **REVIEW** (ABSTRACT AVAILABLE)

13/3/8 (Item 8 from file: 34)

DIALOG(R)File 34:SciSearch(R) Cited Ref Sci
(c) 2006 The Thomson Corp. All rts. reserv.

13791223 Genuine Article#: 911QE No. References: 23

Title: Robotic nanolitre protein crystallisation at the MRC Laboratory of Molecular Biology

Author(s): Stock D (REPRINT) ; Perisic O; Lowe J

Corporate Source: MRC,Mol Biol Lab,Hills Rd/Cambridge CB2 2QH//England/
(REPRINT); MRC,Mol Biol Lab,Cambridge CB2 2QH//England/
stock@mrc-lmb.cam.ac.uk)

Journal: PROGRESS IN BIOPHYSICS & MOLECULAR BIOLOGY, 2005, V88, N3 (JUL), P 311-327

ISSN: 0079-6107 Publication date: 20050700

Publisher: PERGAMON-ELSEVIER SCIENCE LTD, THE BOULEVARD, LANGFORD LANE,
KIDLINGTON, OXFORD OX5 1GB, ENGLAND

Language: English Document Type: REVIEW (ABSTRACT AVAILABLE)

13/3/9 (Item 9 from file: 34)

DIALOG(R)File 34:SciSearch(R) Cited Ref Sci
(c) 2006 The Thomson Corp. All rts. reserv.

12929044 Genuine Article#: 834JV No. References: 41

Title: Hydrogen and hydration in proteins

Author(s): Niimura N (REPRINT) ; Chatake T; Kurihara K; Maeda M

Corporate Source: Japan Atom Energy Res Inst,Neutron Sci Res
Ctr,Tokai/Ibaraki 31911/Japan/ (REPRINT); Japan Atom Energy Res
Inst,Neutron Sci Res Ctr,Tokai/Ibaraki 31911/Japan/; Ibaraki Univ,Fac
Technol,Hitachi/Ibaraki 316/Japan/(niimura@kotai3.tokai.jaeri.go.jp)

Journal: CELL BIOCHEMISTRY AND BIOPHYSICS, 2004, V40, N3, P351-369

ISSN: 1085-9195 Publication date: 20040000

Publisher: HUMANA PRESS INC, 999 RIVERVIEW DRIVE SUITE 208, TOTOWA, NJ
07512 USA

Language: English Document Type: REVIEW (ABSTRACT AVAILABLE)

13/3/10 (Item 10 from file: 34)

DIALOG(R)File 34:SciSearch(R) Cited Ref Sci
(c) 2006 The Thomson Corp. All rts. reserv.

12700384 Genuine Article#: 811GE No. References: 47

Title: Phase transitions in lysozyme solutions characterized by differential scanning calorimetry

Author(s): Lu J (REPRINT) ; Chow PS; Carpenter K

Corporate Source: Inst Chem & Engn Sci,Ayer Rajah Crescent,Block 28,Unit
02-08/Singapore 139959//Singapore/ (REPRINT); Inst Chem & Engn
Sci,Singapore 139959//Singapore/

Journal: PROGRESS IN CRYSTAL GROWTH AND CHARACTERIZATION OF MATERIALS, 2003
, V46, N3, P105-129

ISSN: 0960-8974 Publication date: 20030000

Publisher: PERGAMON-ELSEVIER SCIENCE LTD, THE BOULEVARD, LANGFORD LANE,
KIDLINGTON, OXFORD OX5 1GB, ENGLAND

Language: English Document Type: REVIEW (ABSTRACT AVAILABLE)

13/3/11 (Item 11 from file: 34)

DIALOG(R)File 34:SciSearch(R) Cited Ref Sci
(c) 2006 The Thomson Corp. All rts. reserv.

12553924 Genuine Article#: 800JT No. References: 90

Title: Which strategy for a protein crystallization project?

Author(s): Kundrot CE (REPRINT)

Corporate Source: NASA,George C Marshall Space Flight Ctr, Micrograv Sci &
Applicat Dept, Sci Planning,Mail Code SD41/Huntsville//AL/35812
(REPRINT); NASA,George C Marshall Space Flight Ctr, Micrograv Sci &
Applicat Dept, Sci Planning,Huntsville//AL/35812

Journal: CELLULAR AND MOLECULAR LIFE SCIENCES, 2004, V61, N5 (MAR), P
525-536

ISSN: 1420-682X Publication date: 20040300

Publisher: BIRKHAUSER VERLAG AG, VIADUKSTRASSE 40-44, PO BOX 133, CH-4010
BASEL, SWITZERLAND

Language: English Document Type: **REVIEW** (ABSTRACT AVAILABLE)

13/3/12 (Item 12 from file: 34)

DIALOG(R)File 34:SciSearch(R) Cited Ref Sci
(c) 2006 The Thomson Corp. All rts. reserv.

12387897 Genuine Article#: 761JK No. References: 45

Title: Protein crystallization: From HTS to kilogram-scale

Author(s): Klyushnichenko V (REPRINT)

Corporate Source: Altus Biol Inc,Proc Dev,625 Putnam
Ave/Cambridge//MA/02139 (REPRINT); Altus Biol Inc,Proc
Dev,Cambridge//MA/02139

Journal: CURRENT OPINION IN DRUG DISCOVERY & DEVELOPMENT, 2003, V6, N6 (NOV
) , P848-854

ISSN: 1367-6733 Publication date: 20031100

Publisher: CURRENT DRUGS LTD, MIDDLESEX HOUSE, 34-42 CLEVELAND ST, LONDON
W1P 6LB, ENGLAND

Language: English Document Type: **REVIEW** (ABSTRACT AVAILABLE)

13/3/13 (Item 13 from file: 34)

DIALOG(R)File 34:SciSearch(R) Cited Ref Sci
(c) 2006 The Thomson Corp. All rts. reserv.

12376890 Genuine Article#: BY10E No. References: 49

Title: Robotics for automated crystal formation and analysis

Author(s): Weselak M (REPRINT) ; Patch MG; Selby TL; Knebel G; Stevens RC

Corporate Source: Novartis Res Fdn,Genom Inst,La Jolla//CA/92037 (REPRINT);
Novartis Res Fdn,Genom Inst,La Jolla//CA/92037; Scripps Res Inst,Joint
Ctr Struct Genom, Dept Mol Biol,La Jolla//CA/92037; Greiner Bio One
GmbH,D-72636 Frickenhausen//Germany/
, 2003, V368, P45-76

ISSN: 0076-6879 Publication date: 20030000

Publisher: ACADEMIC PRESS INC, 525 B STREET, SUITE 1900, SAN DIEGO, CA
92101-4495 USAMACROMOLECULAR CRYSTALLOGRAPHY, PT C

Series: METHODS IN ENZYMOLOGY

Language: English Document Type: **REVIEW**

13/3/14 (Item 14 from file: 34)

DIALOG(R)File 34:SciSearch(R) Cited Ref Sci
(c) 2006 The Thomson Corp. All rts. reserv.

11792027 Genuine Article#: 697JU No. References: 41

Title: High-throughput crystallography to enhance drug discovery

Author(s): Sharff A (REPRINT) ; Jhoti H

Corporate Source: Astex Technol Ltd,436 Cambridge Sci Pk,Milton
Rd/Cambridge CB4 0QA//England/ (REPRINT); Astex Technol Ltd,Cambridge
CB4 0QA//England/

Journal: CURRENT OPINION IN CHEMICAL BIOLOGY, 2003, V7, N3 (JUN), P340-345

ISSN: 1367-5931 Publication date: 20030600

Publisher: CURRENT BIOLOGY LTD, 84 THEOBALDS RD, LONDON WC1X 8RR, ENGLAND

Language: English Document Type: **REVIEW** (ABSTRACT AVAILABLE)

13/3/15 (Item 15 from file: 34)

DIALOG(R)File 34:SciSearch(R) Cited Ref Sci
(c) 2006 The Thomson Corp. All rts. reserv.

11779533 Genuine Article#: 694CR No. References: 61

Title: Crystal structures of fusion proteins with large-affinity tags

Author(s): Smyth DR; Mrozkiewicz MK; McGrath WJ; Listwan P; Kobe B
(REPRINT)

Corporate Source: Univ Queensland,Dept Biochem & Mol Biol, Cooperat Res Ctr
Chron Inflammatory Dis, Inst Mol Bios,Brisbane/Qld 4072/Australia/
(REPRINT); Univ Queensland,Dept Biochem & Mol Biol, Cooperat Res Ctr
Chron Inflammatory Dis, Inst Mol Bios,Brisbane/Qld 4072/Australia/;
Univ Queensland,Special Res Ctr Funct & Appl Genom,Brisbane/Qld
4072/Australia/; Brookhaven Natl Lab,Dept Biol,Upton//NY/11973

Journal: PROTEIN SCIENCE, 2003, V12, N7 (JUL), P1313-1322

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19/3/1 (Item 1 from file: 5)
DIALOG(R)File 5:Biosis Previews(R)
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0014378871 BIOSIS NO.: 200300335614
**Rapid, High Resolution Definition of Conformational Changes That Occur in
Thrombin upon Binding to Hirudin Employing Enhanced Hydrogen- Deuterium
Exchange- Mass Spectrometry (DXMS).**
AUTHOR: Pantazatos Dennis P (Reprint); Kim Jack (Reprint); Woods Virgil
(Reprint)
AUTHOR ADDRESS: Dept. of Medicine, UC San Diego, La Jolla, CA, USA**USA
JOURNAL: Blood 100 (11): pAbstract No. 1014 November 16, 2002 2002
MEDIUM: print
CONFERENCE/MEETING: 44th Annual Meeting of the American Society of
Hematology Philadelphia, PA, USA December 06-10, 2002; 20021206
SPONSOR: American Society of Hematology
ISSN: 0006-4971
DOCUMENT TYPE: Meeting; Meeting Abstract; Meeting Poster
RECORD TYPE: Abstract
LANGUAGE: English

19/3/2 (Item 2 from file: 5)
DIALOG(R)File 5:Biosis Previews(R)
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0014378843 BIOSIS NO.: 200300335586
**Molecular Mechanism of Spectrin Elasticity Probed by Enhanced Amide
Hydrogen- Deuterium Exchange Mass Spectrometry (DXMS).**
AUTHOR: Pantazatos Dennis (Reprint); MacDonald Ruby; Kim Jack; Woods
Virgil L
AUTHOR ADDRESS: Medicine, UC San Diego, La Jolla, CA, USA**USA
JOURNAL: Blood 100 (11): pAbstract No. 986 November 16, 2002 2002
MEDIUM: print
CONFERENCE/MEETING: 44th Annual Meeting of the American Society of
Hematology Philadelphia, PA, USA December 06-10, 2002; 20021206
SPONSOR: American Society of Hematology
ISSN: 0006-4971
DOCUMENT TYPE: Meeting; Meeting Abstract; Meeting Poster
RECORD TYPE: Abstract
LANGUAGE: English

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11170914 Genuine Article#: 616MX No. References: 44

Title: Phosphorylation driven motions in the COOH-terminal Src kinase, Csk, revealed through enhanced hydrogen -deuterium exchange and mass spectrometry (DXMS)

Author(s): Hamuro Y; Wong L; Shaffer J; Kim JS; Stranz DD; Jennings PA; Woods VL (REPRINT) ; Adams JA

Corporate Source: Univ Calif San Diego, Dept Med, 9500 Gilman Dr/La Jolla//CA/92093 (REPRINT); Univ Calif San Diego, Dept Med, La Jolla//CA/92093; Univ Calif San Diego, Dept Chem & Biochem, La Jolla//CA/92093; Univ Calif San Diego, Dept Pharmacol, La Jolla//CA/92093 ; Sierra Analyt LLC, Modesto//CA/95355

Journal: JOURNAL OF MOLECULAR BIOLOGY, 2002 , V323, N5 (NOV 8), P871-881

ISSN: 0022-2836 Publication date: 20021108

Publisher: ACADEMIC PRESS LTD ELSEVIER SCIENCE LTD, 24-28 OVAL RD, LONDON NW1 7DX, ENGLAND

Language: English Document Type: ARTICLE (ABSTRACT AVAILABLE)

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DIALOG(R) File 34:SciSearch(R) Cited Ref Sci

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10548534 Genuine Article#: 541EN No. References: 25

Title: Antiphase boundaries in GaP layers grown on (001) Si by chemical beam epitaxy

Author(s): Narayanan V; Mahajan S (REPRINT) ; Bachmann KJ; Woods V ; Dietz N

Corporate Source: Arizona State Univ, Dept Chem & Mat Engr, Tempe//AZ/85287 (REPRINT); Arizona State Univ, Dept Chem & Mat Engr, Tempe//AZ/85287; Arizona State Univ, Ctr Solid State Elect Res, Tempe//AZ/85287; N Carolina State Univ, Dept Mat Sci & Engr, Raleigh//NC/27695; N Carolina State Univ, Dept Phys, Raleigh//NC/27695

Journal: ACTA MATERIALIA, 2002 , V50, N6 (APR 2), P1275-1287

ISSN: 1359-6454 Publication date: 20020402

Publisher: PERGAMON-ELSEVIER SCIENCE LTD, THE BOULEVARD, LANGFORD LANE, KIDLINGTON, OXFORD OX5 1GB, ENGLAND

Language: English Document Type: ARTICLE (ABSTRACT AVAILABLE)

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DIALOG(R) File 144:Pascal

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14478452 PASCAL No.: 00-0140027

Orientation mediated self-assembled gallium phosphide islands grown on silicon

NARAYANAN V; MAHAJAN S; SUKIDI N; BACHMANN K J; WOODS V ; DIETZ N
Department of Chemical, Bio and Materials Engineering, and Center for Solid State Electronic Research, Arizona State University., Tempe, AZ 85287-6006, United States; Department of Materials Science and Engineering, North Carolina State University, Raleigh, NC 27695-7919, United States; Department of Physics, North Carolina State University, Raleigh, NC 27695-7919, United States

Journal: Philosophical magazine. A. Physics of condensed matter. Structure, defects and mechanical properties, 2000 , 80 (3) 555-572

Language: English

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? t s19/full/all

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DIALOG(R)File 5:Biosis Previews(R)
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0014378871 BIOSIS NO.: 200300335614

**Rapid, High Resolution Definition of Conformational Changes That Occur in
Thrombin upon Binding to Hirudin Employing Enhanced Hydrogen- Deuterium
Exchange- Mass Spectrometry (DXMS).**

AUTHOR: Pantazatos Dennis P (Reprint); Kim Jack (Reprint); Woods Virgil
(Reprint)

AUTHOR ADDRESS: Dept. of Medicine, UC San Diego, La Jolla, CA, USA**USA

JOURNAL: Blood 100 (11): pAbstract No. 1014 November 16, 2002 2002

MEDIUM: print

CONFERENCE/MEETING: 44th Annual Meeting of the American Society of
Hematology Philadelphia, PA, USA December 06-10, 2002; 20021206

SPONSOR: American Society of Hematology

ISSN: 0006-4971

DOCUMENT TYPE: Meeting; Meeting Abstract; Meeting Poster

RECORD TYPE: Abstract

*LANGUAGE: English

ABSTRACT: Peptide amide hydrogen exchange has proven to be an increasingly powerful method by which protein dynamics, structure and function can be characterized. These studies can provide information that greatly amplifies and refines inferences drawn from high-resolution structural studies, and can provide unique insights when reliable structural information is unavailable. Deuterium exchange methods coupled with either ESI- LCMS, or MALDI MS, are presently employed. Unfortunately, the necessary techniques have remained labor intensive and time consuming, with substantial limitations in throughput, comprehensiveness (the extent to which a protein sequence is covered with measurable peptide fragments) and resolution (the degree to which exchange measurements can be ascribed to particular amides). We have developed and implemented a number of improvements to these methodologies and experimental equipment, which have substantially overcome these shortcomings. We term these collective enhancements deuterium exchange-mass spectrometry (DXMS; J. Cell. Biochem. 37: 89-98, 2001; J.Mol. Biol. 321:4, 703-714, 2002). In the present study we have employed DXMS to characterize the binding interaction of human alpha thrombin with hirudin. Thrombin and thrombin-hirudin complex were incubated in physiologic buffer supplemented with deuterated water, and at varying times deuterium "on-exchange" was stopped, and exchanged deuterium locked in place ("exchange quenched") by shifting the solution to acidic pH and low temperature. Thrombin- bound deuterium was then localized and quantified in each preparation, at each time point, with enhanced DXMS methods, including extensive fragmentation of the quenched protein with pepsin, subsequent LCMS analysis performed under quench conditions, and rapid determination of the deuterium content of each of the peptide fragments. Critical to the success of the method is the generation of a large number of overlapping peptide fragments of thrombin, to serve as exchange "probes". The binding of human alpha thrombin to thrombomodulin, monoclonal antibodies, and thrombin inhibitors has been previously reported in studies employing MALDI- based

deuterium- exchange- based techniques(Prot. Sci. 11: 1300- 1308, 2002; J. Mol. Biol. 306: 575-579, 2001; PNAS. 95: 14705-14710, 1998). In these studies, methodological limitations resulted in the identification of 30 peptide probes covering 50% of the thrombin sequence. Employing DXMS methodology, we have now identified and used 315 overlapping thrombin peptide fragments as probes, covering more than 94% of the thrombin sequence. The availability of this large number of multiple, overlapping probes allowed us to comprehensively localize thrombin sequences perturbed by the binding of hirudin. This DXMS analysis reliably identified the regions of hirudin- thrombin contact deduced from **crystallographic** studies and revealed substantial regions of thrombin that undergo conformational change upon binding of hirudin. These changes begin at the thrombin- hirudin binding interface, and propagate through the substance of the thrombin heavy chain to its contacts with the thrombin light chain. Of note, this study was designed, performed and analysis completed in less than twenty man- hours expended over a weeks time. Details of the results of this study, and the DXMS methodology that made it possible will be presented.

REGISTRY NUMBERS: 9002-04-4: alpha-thrombin; 8001-27-2: hirudin; 7789-20-0: deuterated water; 7782-39-0: deuterium; 9001-75-6: pepsin; 9000-94-6: thrombin inhibitor

ENZYME COMMISSION NUMBER: EC 3.4.23.1: pepsin

DESCRIPTORS:

MAJOR CONCEPTS: Enzymology--Biochemistry and Molecular Biophysics;
Methods and Techniques

BIOSYSTEMATIC NAMES: Hominidae--Primates, Mammalia, Vertebrata, Chordata, Animalia

ORGANISMS: human (Hominidae)

COMMON TAXONOMIC TERMS: Animals; Chordates; Humans; Mammals; Primates; Vertebrates

CHEMICALS & BIOCHEMICALS: alpha-thrombin--binding, conformational change, light chain, heavy chain, overlapping peptide fragment; hirudin--binding; deuterated water; thrombin-hirudin complex; deuterium; pepsin; thrombomodulin; monoclonal antibody; thrombin inhibitor

METHODS & EQUIPMENT: enhanced hydrogen-deuterium exchange-mass spectrometry--laboratory techniques, spectrum analysis techniques

MISCELLANEOUS TERMS: protein protein interaction; acidic pH; temperature; Meeting Abstract; Meeting Poster

CONCEPT CODES:

00520 General biology - Symposia, transactions and proceedings
10064 Biochemistry studies - Proteins, peptides and amino acids
10802 Enzymes - General and comparative studies: coenzymes
34502 Immunology - General and methods

BIOSYSTEMATIC CODES:

86215 Hominidae

19/9/2 (Item 2 from file: 5)

DIALOG(R)File 5:Biosis Previews(R)

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0014378843 BIOSIS NO.: 200300335586

Molecular Mechanism of Spectrin Elasticity Probed by Enhanced Amide Hydrogen- Deuterium Exchange Mass Spectrometry (DXMS).

AUTHOR: Pantazatos Dennis (Reprint); MacDonald Ruby; Kim Jack; Woods Virgil L

AUTHOR ADDRESS: Medicine, UC San Diego, La Jolla, CA, USA**USA
JOURNAL: Blood 100 (11): pAbstract No. 986 November 16, 2002 2002
MEDIUM: print
CONFERENCE/MEETING: 44th Annual Meeting of the American Society of
Hematology Philadelphia, PA, USA December 06-10, 2002; 20021206
SPONSOR: American Society of Hematology
ISSN: 0006-4971
DOCUMENT TYPE: Meeting; Meeting Abstract; Meeting Poster
RECORD TYPE: Abstract
LANGUAGE: English

ABSTRACT: Upon platelet activation, a large increase in plasma membrane surface area is required, as initially discoid platelets spread to seal microvascular breaches. This is accomplished by a cytoskeletal scaffolding composed of crosslinked actin filaments bound to both a spectrin membrane skeleton and the cell surface by the alpha-chain of the vWF receptor. While alpha spectrin's remarkable nonlinear microelasticity likely plays a critical role in allowing this increase of platelet surface area, the structural and dynamic properties of spectrin that are responsible for this behavior are unclear. Alpha spectrin has an elongated structure made of twenty so-called spectrin repeats. X-ray **crystal** structures of constructs composed of two such tandem repeats reveal that each repeat is composed of three long antiparallel alpha-helices connected by short loops, forming a coiled coil structure. Atomic force microscopy studies of single spectrin molecules demonstrate that the spectrin force/ extension relationship is sawtoothed: force repeatedly rises by 10-20 pN and then abruptly drops nearly to baseline with progressive elongation. The result is that the range of elastic force exerted by a spectrin molecule is remarkably independent of its stretched length. To better understand the properties of spectrin that may account for this behavior, we have employed enhanced methods of peptide amide hydrogen- deuterium exchange- mass spectrometry (DXMS; J. Cell. Biochem. 37:89-98,2001; J.Mol. Biol. 321:4 703-714, 2002) to define the hydrogen- exchange behavior of a two repeat construct of chicken brain alpha spectrin (R1617). Under appropriate conditions, the rate of exchange between solvent hydrogen (deuterium from D2O) and a protein's peptide amide hydrogens is a function of the thermodynamic stability of the protein in the immediate environs of the amide(s) under study. The spectrin construct was incubated in physiologic buffer supplemented with deuterated water, and at varying times (10 seconds to 4 hours) deuterium "on- exchange" was stopped, and amide-bound deuterium locked in place ("exchange- quenched") by shifting the solution to acidic pH and low temperature. Attached deuterium was then localized and quantified by extensively fragmenting the quenched protein with pepsin; subjecting the fragments to LCMS analysis performed under quench conditions; followed by determination of the deuterium content of each of the resulting 116 peptide fragments produced from this 213 residue construct. This data was then used to calculate the amide hydrogen exchange rates across the entire sequence of the construct. While the central 1/4 to 1/3 of most of the six helices in the construct had uniformly slowly exchanging amides, the remaining 1/2 to 2/3 of each helix demonstrated remarkable gradients in exchange rates, with progressive increases in exchange rates of at least 1000- fold from the center to the ends of the helices. Each of the loop regions demonstrated uniformly fast exchange rates. While it is anticipated that a few amides at each end of a helix would exchange faster than the bulk of the helix, the observed gradient in exchange rates, and corresponding gradient in

helical stability, extends across most of the length of the spectrin alpha helices. The implications of this finding for proposed models of spectrin elasticity will be discussed, as will be the DXMS methodology that has made this study possible.

REGISTRY NUMBERS: 1333-74-0: hydrogen; 7789-20-0: deuterated water;

7782-39-0: deuterium; 9001-75-6: pepsin

ENZYME COMMISSION NUMBER: EC 3.4.23.1: pepsin

DESCRIPTORS:

MAJOR CONCEPTS: Blood and Lymphatics--Transport and Circulation; Nervous System--Neural Coordination

BIOSYSTEMATIC NAMES: Galliformes--Aves, Vertebrata, Chordata, Animalia

ORGANISMS: chicken (Galliformes)

ORGANISMS: PARTS ETC: platelet--blood and lymphatics; brain--nervous system; plasma membrane

COMMON TAXONOMIC TERMS: Animals; Birds; Chordates; Nonhuman Vertebrates; Vertebrates

CHEMICALS & BIOCHEMICALS: alpha-spectrin--thermodynamic stability, elasticity, structural property, dynamic property; hydrogen; amide hydrogen; deuterated water; deuterium; pepsin

METHODS & EQUIPMENT: enhanced amide hydrogen-deuterium exchange mass spectrometry--laboratory techniques, spectrum analysis techniques; atomic force microscopy--imaging and microscopy techniques, laboratory techniques

MISCELLANEOUS TERMS: spectrin force/extension relationship; exchange rate regulation; Meeting Abstract; Meeting Poster

CONCEPT CODES:

00520 General biology - Symposia, transactions and proceedings

10060 Biochemistry studies - General

10802 Enzymes - General and comparative studies: coenzymes

15002 Blood - Blood and lymph studies

15004 Blood - Blood cell studies

20504 Nervous system - Physiology and biochemistry

BIOSYSTEMATIC CODES:

85536 Galliformes

19/9/3 (Item 1 from file: 34)

DIALOG(R) File 34:SciSearch(R) Cited Ref Sci

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11170914 Genuine Article#: 616MX Number of References: 44

Title: Phosphorylation driven motions in the COOH-terminal Src kinase, Csk, revealed through enhanced hydrogen -deuterium exchange and mass spectrometry (DXMS)

Author(s): Hamuro Y; Wong L; Shaffer J; Kim JS; Stranz DD; Jennings PA; Woods VL (REPRINT) ; Adams JA

Corporate Source: Univ Calif San Diego, Dept Med, 9500 Gilman Dr/La

Jolla//CA/92093 (REPRINT); Univ Calif San Diego, Dept Med, La

Jolla//CA/92093; Univ Calif San Diego, Dept Chem & Biochem, La

Jolla//CA/92093; Univ Calif San Diego, Dept Pharmacol, La Jolla//CA/92093 ; Sierra Analyt LLC, Modesto//CA/95355

Journal: JOURNAL OF MOLECULAR BIOLOGY, 2002 , V323, N5 (NOV 8), P871-881

ISSN: 0022-2836 Publication date: 20021108

Publisher: ACADEMIC PRESS LTD ELSEVIER SCIENCE LTD, 24-28 OVAL RD, LONDON NW1 7DX, ENGLAND

Language: English Document Type: ARTICLE

Geographic Location: USA

Journal Subject Category: BIOCHEMISTRY & MOLECULAR BIOLOGY

Abstract: Previous kinetic studies demonstrated that nucleotide-derived conformational changes regulate function in the COOH-terminal Src kinase. We have employed enhanced methods of hydrogen-deuterium exchange-mass spectrometry (DXMS) to probe conformational changes on Csk in the absence and presence of nucleotides and thereby provide a structural framework for understanding phosphorylation-driven conformational changes. High quality peptic fragments covering approximately 63% of the entire Csk polypeptide were isolated using DXMS. Time-dependent deuterium incorporation into these probes was monitored to identify short peptide segments that exchange differentially with solvent. Regions expected to lie in loops exchange rapidly, whereas other regions expected to lie in stable secondary structure exchange slowly with solvent implying that Csk adopts a modular structure. The ATP analog, AMPPNP, protects probes in the active site and distal regions in the large and small lobes of the kinase domain, the SH2 domain, and the linker connecting the SH2 and kinase domains. The product ADP protects similar regions of the protein but the extent of protection varies markedly in several crucial areas. These areas correspond to the activation loop and helix G in the kinase domain and several inter-domain regions. These results imply that delivery of the gamma phosphate group of ATP induces unique local and long-range conformational changes in Csk that may influence regulatory motions in the catalytic pathway. (C) 2002 Elsevier Science Ltd. All rights reserved.

Descriptors--Author Keywords: Csk ; deuterium exchange ; mass spectrometry ; Src ; kinase

Identifiers--KeyWord Plus(R): DEPENDENT PROTEIN-KINASE; RECEPTOR TYROSINE KINASE; **CRYSTAL** -STRUCTURE; CONFORMATIONAL-CHANGES; CATALYTIC ACTIVITY; INSULIN-RECEPTOR; KINETIC-ANALYSIS; FAMILY KINASES; COMPLEX; DOMAIN

Cited References:

- US 5658739, 1997, WOODS VL
- US 6291189, 2001, WOODS V
- US 6331400, 2001, WOODS V
- ANDERSEN MD, 2001, V276, P14204, J BIOL CHEM
- BERGMAN M, 1992, V11, P2919, EMBO J
- CHAMBERLAIN AK, 1997, V5, P859, STRUCTURE
- ENGEN J, 2001, V73, PA256, ANAL CHEM
- ENGLANDER SW, 1983, V16, P521, Q REV BIOPHYS
- ENGLANDER SW, 1997, V6, P1101, PROTEIN SCI
- GRANT BD, 1996, V35, P2022, BIOCHEMISTRY-US
- HAMAGUCHI I, 1996, V224, P172, BIOCHEM BIOPH RES CO
- HUBBARD SR, 1997, V16, P5572, EMBO J
- HUBBARD SR, 1994, V372, P746, NATURE
- INOMATA M, 1994, V116, P386, J BIOCHEM-TOKYO
- JAN AY, 2000, V39, P9786, BIOCHEMISTRY-US
- JEFFREY PD, 1995, V376, P313, NATURE
- JOHNSON LN, 1996, V85, P149, CELL
- KNIGHTON DR, 1991, V253, P407, SCIENCE
- KNIGHTON DR, 1991, V253, P414, SCIENCE
- LAMERS MBAC, 1999, V285, P713, J MOL BIOL
- LATOURE S, 2001, V13, P299, CURR OPIN IMMUNOL
- NEET K, 1996, V1, P147, GENES CELLS
- OGAWA A, 2002, V277, P14351, J BIOL CHEM
- OKADA M, 1991, V266, P24249, J BIOL CHEM

RESING KA, 1999, V10, P685, J AM SOC MASS SPECTR
 RESING KA, 1997, V283, P29, METHOD ENZYMOL
 RESING KA, 1998, V37, P463, BIOCHEMISTRY-US
 RODRIGUEZ HM, 2002, V41, P2140, BIOCHEMISTRY-US
 SHAFFER J, 1999, V38, P12072, BIOCHEMISTRY-US
 SHAFFER J, 1999, V38, P5572, BIOCHEMISTRY-US
 SHAFFER J, 2001, V40, P11149, BIOCHEMISTRY-US
 SICHERI F, 1997, V385, P602, NATURE
 SIVARAMAN T, 2001, V8, P331, NAT STRUCT BIOL
 SONDHI D, 1999, V38, P11147, BIOCHEMISTRY-US
 SUN GQ, 1999, V367, P167, ARCH BIOCHEM BIOPHYS
 SUPERTIFURGA G, 1995, V17, P321, BIOESSAYS
 TATOSYAN AG, 2000, V65, P49, BIOCHEMISTRY-MOSCOW+
 TAYLOR SJ, 1996, V18, P9, BIOESSAYS
 THEVENONEMERIC G, 1992, V64, P2456, ANAL CHEM
 WILLIAMS JC, 1997, V274, P757, J MOL BIOL
 WOODS VL, 2001, P89, J CELL BIOCHEM S37
 XU WQ, 1997, V385, P595, NATURE
 ZENNER G, 1995, V17, P967, BIOESSAYS
 ZHANG Z, 1993, V2, P522, PROTEIN SCI

19/9/4 (Item 2 from file: 34)

DIALOG(R)File 34:SciSearch(R) Cited Ref Sci

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10548534 Genuine Article#: 541EN Number of References: 25

Title: Antiphase boundaries in GaP layers grown on (001) Si by chemical beam epitaxy

Author(s): Narayanan V; Mahajan S (REPRINT) ; Bachmann KJ; Woods V ; Dietz N

Corporate Source: Arizona State Univ, Dept Chem & Mat Engr, Tempe//AZ/85287
 (REPRINT); Arizona State Univ, Dept Chem & Mat Engr, Tempe//AZ/85287;
 Arizona State Univ, Ctr Solid State Elect Res, Tempe//AZ/85287; N
 Carolina State Univ, Dept Mat Sci & Engr, Raleigh//NC/27695; N Carolina
 State Univ, Dept Phys, Raleigh//NC/27695

Journal: ACTA MATERIALIA, 2002, V50, N6 (APR 2), P1275-1287

ISSN: 1359-6454 **Publication date:** 20020402

Publisher: PERGAMON-ELSEVIER SCIENCE LTD, THE BOULEVARD, LANGFORD LANE, KIDLINGTON, OXFORD OX5 1GB, ENGLAND

Language: English **Document Type:** ARTICLE

Geographic Location: USA

Journal Subject Category: MATERIALS SCIENCE, MULTIDISCIPLINARY; METALLURGY & METALLURGICAL ENGINEERING

Abstract: We have investigated the origin of contrast features observed in coalesced GaP islands, deposited by chemical beam epitaxy on (001) Si, by high resolution transmission electron microscopy and conventional dark field electron microscopy. Our results indicate that these features are antiphase boundaries (APBs) lying on {110} planes. Image simulations have been performed to show that APBs can only be seen under specific defocus conditions in high resolution lattice images. The observed contrast is attributed to the presence of Ga-Ga and P-P wrong bonds at APBs. A model is proposed to show that the coalescence of GaP islands on the same Si terrace may not produce APBs, and the formation of such boundaries may require the presence of monoatomic steps, separating the coalescing islands. (C) 2002 Published by Elsevier Science Ltd on behalf of Acta Materialia Inc.

Descriptors--Author Keywords: transmission electron microscopy (TEM) ;
epitaxy ; GaP ; islands ; antiphase domains
Identifiers--KeyWord Plus(R): DOMAIN BOUNDARIES; GAAS; GE; ANNIHILATION;
ORIENTATION; TRANSLATION; DIFFRACTION; SILICON; **CRYSTAL**

Cited References:

*MOL SIM INC, 1993, CER VERS 3 2
ASPNES DE, 1987, V2, P45, HETEROEPITAXY SILICO
COHEN D, 1997, V2, P503, DEFECTS ELECT MAT
DEGRAEF M, 1999, COMMUNICATION
GEORGAKILAS A, 1993, V8, P1908, J MATER RES
GOWERS JP, 1984, V34, P231, APPL PHYS A-SOLID
HOLT DB, 1969, V30, P1297, J PHYS CHEM SOLIDS
HOLT DB, 1984, V19, P439, J MATER SCI
KROEMER H, 1980, V36, P763, APPL PHYS LETT
KROEMER H, 1987, V81, P193, J CRYST GROWTH
KUAN TS, 1983, V54, P4408, J APPL PHYS
LAMBRECHT WRL, 1992, V68, P1363, PHYS REV LETT
LILIENTALWEBER Z, 1989, V30, P20, ULTRAMICROSCOPY
LILIENTALWEBER Z, 1988, V26, P59, ULTRAMICROSCOPY
MOLINA SI, 1993, V22, P567, J ELECTRON MATER
NARAYANAN V, 2000, V80, P555, PHILOS MAG A
NARAYANAN V, 2001, IN PRESS DIETZ N
PETROFF PM, 1986, V4, P874, J VAC SCI TECHNOL B
POSTHILL JB, 1988, V53, P1207, APPL PHYS LETT
PUKITE PR, 1987, V2, P51, HETEROEPITAXY SILICO
RASMUSSEN DR, 1991, V66, P2629, PHYS REV LETT
TAFTO J, 1982, V15, P60, J APPL CRYSTALLOGR
UEDA O, 1989, V55, P445, APPL PHYS LETT
UPPAL PN, 1985, V58, P2195, J APPL PHYS
VANDYCK D, 1984, V15, P357, ULTRAMICROSCOPY

19/9/5 (Item 1 from file: 144)

DIALOG(R) File 144:Pascal

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14478452 PASCAL No.: 00-0140027

Orientation mediated self-assembled gallium phosphide islands grown on silicon

NARAYANAN V; MAHAJAN S; SUKIDI N; BACHMANN K J; **WOODS V** ; DIETZ N

Department of Chemical, Bio and Materials Engineering, and Center for
Solid State Electronic Research, Arizona State University., Tempe, AZ
85287-6006, United States; Department of Materials Science and Engineering,
North Carolina State University, Raleigh, NC 27695-7919, United States;
Department of Physics, North Carolina State University, Raleigh, NC
27695-7919, United States

Journal: Philosophical magazine. A. Physics of condensed matter.
Structure, defects and mechanical properties, 2000 , 80 (3) 555-572
ISSN: 1364-2804 Availability: INIST-134A1; 354000086601940040
No. of Refs.: 24 ref.

Document Type: P (Serial) ; A (Analytic)

Country of Publication: United Kingdom

Language: English

Evolution of gallium phosphide epitaxial islands, grown on the (001),
(111), (110) and (113) surfaces of Si by chemical beam epitaxy, has been
investigated by p-polarized reflectance spectroscopy, transmission electron
microscopy and atomic force microscopy The growth nucleates as faceted

three-dimensional islands on the (001) and (111) Si surfaces because of the polar nature of the heterointerface which increases the interfacial energy. A more two-dimensional-like growth mode is seen on the (110) and (113) surfaces which is attributed to the absence of charge build up at the GaP-Si heterointerface for these orientations, thereby reducing the interface energy. Islands grown on (001) Si become more faceted and larger in size with increase in growth temperature. This is due to a lower incubation time and enhanced atomic mobility at high temperatures. Wurtzite GaP has been observed to coexist with the zincblende polytype in some of the islands grown on (111) Si at 560 Degree C. Arguments have been developed to rationalize these observations.

English Descriptors: Experimental study; **Crystal** nucleation; **Crystal** growth from vapors; Epitaxial layers; Chemical beam epitaxy; Heteroepitaxy; Growth mechanism; Island structure; **Crystal** orientation; Self assembly; Semiconductor materials; Binary compounds; Gallium phosphides; Reflectance; Spectroscopy; TEM; Atomic force microscopy; **Crystal** morphology; Surface reconstruction

Broad Descriptors: Inorganic compounds; Compose mineral

French Descriptors: Etude experimentale; Germination cristalline; Croissance cristalline en phase vapeur; Couche epitaxiale; Epitaxie jet chimique; Heteroepitaxie; Mecanisme croissance; Structure ilot; Orientation cristalline; Autoassemblage; Materiau semiconducteur; Compose binaire; Gallium phosphure; Coefficient reflexion; Spectrometrie; TEM; Microscopie force atomique; Morphologie cristalline; Reconstruction surface; 8115H; 6855J; GaP; Ga P; Substrat Si

Classification Codes: 001B80A15H; 001B60H55J

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? logoff

```

28sep06 09:54:38 User276629 Session D256.2
    $6.50    1.912 DialUnits File155
        $2.64  12 Type(s) in Format  3
        $0.22   1 Type(s) in Format  9
        $2.86  13 Types
$9.36 Estimated cost File155
    $12.69    2.115 DialUnits File5
        $15.40  7 Type(s) in Format  3
        $4.40   2 Type(s) in Format  9
    $19.80   9 Types
$32.49 Estimated cost File5
    $2.21     0.356 DialUnits File24
$2.21 Estimated cost File24
    $0.62     0.100 DialUnits File28
$0.62 Estimated cost File28
    $62.86    2.678 DialUnits File34
        $211.42 31 Type(s) in Format  3
        $13.64   2 Type(s) in Format  9
    $225.06  33 Types
$287.92 Estimated cost File34
    $1.27     0.310 DialUnits File35
        $0.00   1 Type(s) in Format 66
    $0.00   1 Types
$1.27 Estimated cost File35

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\$0.75 0.105 DialUnits File40
 \$0.75 Estimated cost File40
 \$0.54 0.088 DialUnits File41
 \$0.54 Estimated cost File41
 \$0.99 0.199 DialUnits File45
 \$0.99 Estimated cost File45
 \$2.69 0.586 DialUnits File50
 \$2.00 1 Type(s) in Format 3
 \$2.00 1 Types
 \$4.69 Estimated cost File50
 \$4.31 1.050 DialUnits File65
 \$1.20 1 Type(s) in Format 3
 \$1.20 1 Types
 \$5.51 Estimated cost File65
 \$5.73 0.651 DialUnits File71
 \$8.96 7 Type(s) in Format 2
 \$8.96 7 Types
 \$14.69 Estimated cost File71
 \$14.37 1.283 DialUnits File73
 \$14.37 Estimated cost File73
 \$0.32 0.075 DialUnits File91
 \$0.32 Estimated cost File91
 \$1.90 0.542 DialUnits File94
 \$1.35 1 Type(s) in Format 3
 \$1.35 1 Types
 \$3.25 Estimated cost File94
 \$0.63 0.149 DialUnits File98
 \$0.63 Estimated cost File98
 \$0.45 0.077 DialUnits File110
 \$0.45 Estimated cost File110
 \$0.35 0.065 DialUnits File135
 \$0.35 Estimated cost File135
 \$0.49 0.080 DialUnits File136
 \$0.49 Estimated cost File136
 \$0.53 0.178 DialUnits File143
 \$0.53 Estimated cost File143
 \$7.87 1.749 DialUnits File144
 \$1.65 1 Type(s) in Format 3
 \$1.65 1 Type(s) in Format 9
 \$3.30 2 Types
 \$11.17 Estimated cost File144
 \$0.23 0.065 DialUnits File164
 \$0.23 Estimated cost File164
 \$0.75 0.067 DialUnits File172
 \$0.75 Estimated cost File172
 \$1.62 0.264 DialUnits File185
 \$1.62 Estimated cost File185
 \$2.89 0.130 DialUnits File357
 \$2.60 1 Type(s) in Format 3
 \$2.60 1 Types
 \$5.49 Estimated cost File357
 \$0.15 0.042 DialUnits File369
 \$0.15 Estimated cost File369
 \$0.27 0.077 DialUnits File370
 \$6.00 4 Type(s) in Format 3
 \$6.00 4 Types
 \$6.27 Estimated cost File370

```

        $0.00      0.065 DialUnits File391
$0.00 Estimated cost File391
        $25.83     1.101 DialUnits File434
$25.83 Estimated cost File434
        $0.24      0.038 DialUnits File467
$0.24 Estimated cost File467
        $0.85      0.193 DialUnits File149
        $18.40     8 Type(s) in Format 2
        $18.40     8 Types
$19.25 Estimated cost File149
        $2.09      0.354 DialUnits File156
$2.09 Estimated cost File156
        $0.96      0.303 DialUnits File159
$0.96 Estimated cost File159
        $0.76      0.169 DialUnits File162
$0.76 Estimated cost File162
        $0.18      0.050 DialUnits File266
$0.18 Estimated cost File266
        $39.55     3.151 DialUnits File399
        $5.50     2 Type(s) in Format 3
        $5.50     2 Types
$45.05 Estimated cost File399
        $0.38      0.080 DialUnits File444
        $2.35     1 Type(s) in Format 3
        $2.35     1 Types
$2.73 Estimated cost File444
        OneSearch, 37 files, 20.495 DialUnits FileOS
$6.93 TELNET
$511.13 Estimated cost this search
$511.18 Estimated total session cost 20.711 DialUnits

```

Logoff: level 05.12.03 D 09:54:38

You are now logged offTrying 31060000009999...Open

DIALOG INFORMATION SERVICES

PLEASE LOGON:

***** HHHHHHHH SSSSSSS? ### Status: Signing onto Dialog *****

ENTER PASSWORD:

***** HHHHHHHH SSSSSSS? *****

Password incorrect

DIALOG INFORMATION SERVICES

PLEASE LOGON:

***** HHHHHHHH SSSSSSS? ### Status: Login failed

You are now logged off

Connection stopped

You are now logged offTrying 31060000009999...Open

DIALOG INFORMATION SERVICES

PLEASE LOGON:

***** HHHHHHHH SSSSSSS? ### Status: Signing onto Dialog *****

ENTER PASSWORD:

***** HHHHHHHH SSSSSSS? *****

Welcome to DIALOG

Status: Login successfulDialog level 05.12.03D

Last logoff: 28sep06 09:54:38

Logon file405 28sep06 15:15:34

* * *

SYSTEM:HOME

Cost is in DialUnits

Menu System II: D2 version 1.7.9 term=ASCII

*** DIALOG HOMEBASE(SM) Main Menu ***

Information:

1. Announcements (new files, reloads, etc.)
2. Database, Rates, & Command Descriptions
3. Help in Choosing Databases for Your Topic
4. Customer Services (telephone assistance, training, seminars, etc.)
5. Product Descriptions

Connections:

6. DIALOG(R) Document Delivery
7. Data Star(R)

(c) 2003 Dialog, a Thomson business. All rights reserved.

/H = Help

/L = Logoff

/NOMENU = Command Mode

Enter an option number to view information or to connect to an online service. Enter a BEGIN command plus a file number to search a database (e.g., B1 for ERIC).

?

Terminal set to DLINK

*** DIALOG HOMEBASE(SM) Main Menu ***

Information:

1. Announcements (new files, reloads, etc.)
2. Database, Rates, & Command Descriptions
3. Help in Choosing Databases for Your Topic
4. Customer Services (telephone assistance, training, seminars, etc.)
5. Product Descriptions

Connections:

6. DIALOG(R) Document Delivery
7. Data Star(R)

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/H = Help

/L = Logoff

/NOMENU = Command Mode

Enter an option number to view information or to connect to an online service. Enter a BEGIN command plus a file number to search a database (e.g., B1 for ERIC).

? b 155 biosci medicine chemistry

>>>"CHEMISTRY" is not a valid category or service name

>>> 44 is unauthorized
>>> 76 is unauthorized
>>> 138 is unauthorized
>>> 3 of the specified files are not available
28sep06 15:15:46 User276629 Session D257.1
\$0.00 0.218 DialUnits FileHomeBase
\$0.00 Estimated cost FileHomeBase
\$0.05 TELNET
\$0.05 Estimated cost this search
\$0.05 Estimated total session cost 0.218 DialUnits

SYSTEM:OS - DIALOG OneSearch

File 155:MEDLINE(R) 1950-2006/Sep 28
(c) format only 2006 Dialog
File 5:Biosis Previews(R) 1969-2006/Sep W4
(c) 2006 The Thomson Corporation
File 24:CSA Life Sciences Abstracts 1966-2006/Aug
(c) 2006 CSA.
File 28:Oceanic Abstracts 1966-2006/Aug
(c) 2006 CSA.
File 34:SciSearch(R) Cited Ref Sci 1990-2006/Sep W4
(c) 2006 The Thomson Corp
File 35:Dissertation Abs Online 1861-2006/Sep
(c) 2006 ProQuest Info&Learning
File 40:Enviroline(R) 1975-2006/Aug
File 41:Pollution Abstracts 1966-2006/Aug
(c) 2006 CSA.
File 45:EMCare 2006/Sep W4
(c) 2006 Elsevier B.V.
File 50:CAB Abstracts 1972-2006/Aug
(c) 2006 CAB International
File 65:Inside Conferences 1993-2006/Sep 28
(c) 2006 BLDSC all rts. reserv.
File 71:ELSEVIER BIOBASE 1994-2006/Sep W4
(c) 2006 Elsevier B.V.
File 73:EMBASE 1974-2006/Sep 28
(c) 2006 Elsevier B.V.
File 91:MANTIS(TM) 1880-2006/Jan
2001 (c) Action Potential
File 94:JICST-EPlus 1985-2006/Jun W3
(c) 2006 Japan Science and Tech Corp (JST)
File 98:General Sci Abs 1984-2006/Sep
(c) 2006 The HW Wilson Co.
File 110:WasteInfo 1974-2002/Jul
(c) 2002 AEA Techn Env.
***File 110: This file is closed (no updates)**
File 135:NewsRx Weekly Reports 1995-2006/Sep W3
(c) 2006 NewsRx
File 136:BioEngineering Abstracts 1966-2006/Aug
(c) 2006 CSA.
File 143:Biol. & Agric. Index 1983-2006/Jul
(c) 2006 The HW Wilson Co
File 144:Pascal 1973-2006/Sep W1
(c) 2006 INIST/CNRS
File 164:Allied & Complementary Medicine 1984-2006/Sep
(c) 2006 BLHCIS

File 172:EMBASE Alert 2006/Sep 28
(c) 2006 Elsevier B.V.
File 185:Zoological Record Online(R) 1978-2006/Oct
(c) 2006 The Thomson Corp.
File 357:Derwent Biotech Res. 1982-2006/Sep W4
(c) 2006 The Thomson Corp.
File 369:New Scientist 1994-2006/Aug W1
(c) 2006 Reed Business Information Ltd.
File 370:Science 1996-1999/Jul W3
(c) 1999 AAAS

***File 370: This file is closed (no updates). Use File 47 for more current information.**

File 391:Beilstein Reactions 2006/Q3
(c) 2006 Beilstein GmbH
File 434:SciSearch(R) Cited Ref Sci 1974-1989/Dec
(c) 2006 The Thomson Corp
File 467:ExtraMED(tm) 2000/Dec
(c) 2001 Informania Ltd.
File 149:TGG Health&Wellness DB(SM) 1976-2006/Sep W2
(c) 2006 The Gale Group
File 156:ToxFile 1965-2006/Sep W3
(c) format only 2006 Dialog
File 159:Cancerlit 1975-2002/Oct
(c) format only 2002 Dialog

***File 159: Cancerlit is no longer updating.**

Please see HELP NEWS159.

File 162:Global Health 1983-2006/Aug
(c) 2006 CAB International
File 266:FEDRIP 2006/Aug
Comp & dist by NTIS, Intl Copyright All Rights Res
File 399:CA SEARCH(R) 1967-2006/UD=14514
(c) 2006 American Chemical Society

***File 399: Use is subject to the terms of your user/customer agreement.**

IPCR/8 classification codes now searchable as IC=. See HELP NEWSIPCR.

File 444:New England Journal of Med. 1985-2006/Sep W3
(c) 2006 Mass. Med. Soc.

Set	Items	Description
?	s	(hydrogen exchange) and delet?
	625	HYDROGEN EXCHANGE
	996264	DELET?
S1	8	(HYDROGEN EXCHANGE) AND DELET?
?	rd	

>>>Duplicate detection is not supported for File 391.

>>>Records from unsupported files will be retained in the RD set.

S2	4	RD (unique items)
----	---	-------------------

? t s2/medium/all

2/3/1 (Item 1 from file: 5)
DIALOG(R)File 5:Biosis Previews(R)
(c) 2006 The Thomson Corporation. All rts. reserv.

0013611212 BIOSIS NO.: 200200204723

Lack of definable nucleation sites in the rate-limiting transition state of

barnase under native conditions

AUTHOR: Chu Rui-Ai; Bai Yawen (Reprint)
AUTHOR ADDRESS: Laboratory of Biochemistry, National Cancer Institute,
National Institutes of Health, Building 37, Room 6114E, Bethesda, MD,
20892, USA**USA
JOURNAL: Journal of Molecular Biology 315 (4): p759-770 25 January, 2002
2002
MEDIUM: print
ISSN: 0022-2836
DOCUMENT TYPE: Article
RECORD TYPE: Abstract
LANGUAGE: English

2/3/2 (Item 2 from file: 5)

DIALOG(R)File 5:Biosis Previews(R)
(c) 2006 The Thomson Corporation. All rts. reserv.

0012095704 BIOSIS NO.: 199900355364
**NMR hydrogen exchange of the OB-fold protein LysN as a function of
denaturant: The most conserved elements of structure are the most stable
to unfolding**
AUTHOR: Alexandrescu Andrei T (Reprint); Jaravine Viktor A; Dames Sonja A;
Lamour Francois P
AUTHOR ADDRESS: Department of Structural Biology, Biozentrum, University of
Basel, Basel, CH-4056, Switzerland**Switzerland
JOURNAL: Journal of Molecular Biology 289 (4): p1041-1054 June 18, 1999
1999
MEDIUM: print
ISSN: 0022-2836
DOCUMENT TYPE: Article
RECORD TYPE: Abstract
LANGUAGE: English

2/3/3 (Item 3 from file: 5)

DIALOG(R)File 5:Biosis Previews(R)
(c) 2006 The Thomson Corporation. All rts. reserv.

0011700333 BIOSIS NO.: 199800494580
Characterization of a folding intermediate from HIV-1 ribonuclease H
AUTHOR: Kern Gunther; Handel Tracy; Marqusee Susan (Reprint)
AUTHOR ADDRESS: Dep. Mol. Cell Biol., 229 Stanley Hall, Univ. Calif.,
Berkeley, Berkeley, CA 94720, USA**USA
JOURNAL: Protein Science 7 (10): p2164-2174 Oct., 1998 1998
MEDIUM: print
ISSN: 0961-8368
DOCUMENT TYPE: Article
RECORD TYPE: Abstract
LANGUAGE: English

2/3/4 (Item 1 from file: 24)

DIALOG(R)File 24:CSA Life Sciences Abstracts
(c) 2006 CSA. All rts. reserv.

0002670618 IP ACCESSION NO: 6144205

How Cytochrome c Folds, and Why: Submolecular Foldon Units and their Stepwise Sequential Stabilization

Maity, H; Maity, M; Walter Englander, S
Johnson Research Foundation, Department of Biochemistry and Biophysics,
University of Pennsylvania School of Medicine, Philadelphia, PA 19104, USA,
[mailto:hmaity@hx2.med.upenn.edu]

Journal of Molecular Biology, v 343, n 1, p 223-233, October 8, 2004
PUBLICATION DATE: 2004

DOCUMENT TYPE: Journal Article

RECORD TYPE: Abstract

LANGUAGE: English

SUMMARY LANGUAGE: English

ISSN: 0022-2836

FILE SEGMENT: Genetics Abstracts

? s au=(Ferscht, A?) and (hydrogen exchange

>>>Unmatched parentheses

? s au=(Ferscht, A?) and (hydrogen exchange)

1 AU=FERSCHT, A?

625 HYDROGEN EXCHANGE

S3 0 AU=(FERSCHT, A?) AND (HYDROGEN EXCHANGE)

? s au=(Fersht, A?) and (hydrogen exchange)

1135 AU=FERSHT, A?

625 HYDROGEN EXCHANGE

S4 1 AU=(FERSHT, A?) AND (HYDROGEN EXCHANGE)

? t s4/medium/1

4/3/1 (Item 1 from file: 24)

DIALOG(R)File 24:CSA Life Sciences Abstracts

(c) 2006 CSA. All rts. reserv.

0001566234 IP ACCESSION NO: 3843526

Disulfide mutants of barnase II: Changes in structure and local stability identified by hydrogen exchange

Clarke, J; Hounslow, AM; **Fersht, AR***

Cent. Protein Eng., MRC Unit Protein Funct. and Design, MRC Cent., Hills
Rd., Cambridge CB2 2QH, UK

Journal of Molecular Biology, v 253, n 3, p 505-513, 1995

ADDL. SOURCE INFO: Journal of Molecular Biology [J. MOL. BIOL.], vol. 253,
no. 3, pp. 505-513, 1995

PUBLICATION DATE: 1995

DOCUMENT TYPE: Journal Article

RECORD TYPE: Abstract

LANGUAGE: English

SUMMARY LANGUAGE: English

ISSN: 0022-2836

FILE SEGMENT: Nucleic Acids Abstracts

?

PLEASE ENTER A COMMAND OR BE LOGGED OFF IN 5 MINUTES

?

TIMEOUT: Logged Off 09/28/06 15:30:17 by System

?

You are now logged off